IF IT WORX, IT'S

UTAX

USER MANUAL

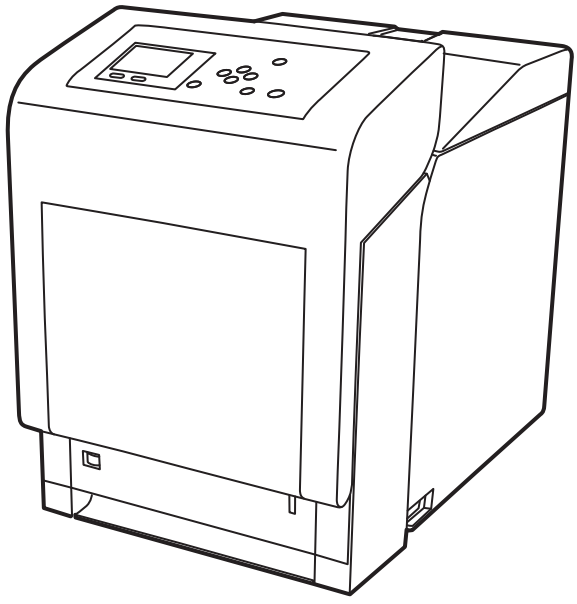
COLOUR PRINTER

P-C3570DN

Print
A4

P-C3570DN

Operation Guide



Contents

Legal and Safety Information

1 Machine Parts
- Components at the Front of the Printer 1-2
- Components at the Left of the Printer 1-2
- Internal Components 1-3
- Components at the Rear of the Printer 1-3
- Operation Panel 1-4

2 Printing Operation
- Changing Network Interface Parameters 2-2
- Printing a Status Page 2-4
- Embedded Web Server RX 2-4
- Installing the Printer Driver 2-13
- Printing from Application Software 2-20
- Printing by AirPrint 2-21
- Status Monitor 2-22
- Energy Saver Function 2-26

3 Handling Paper
- General Guidelines 3-2
- Selecting the Right Paper 3-4
- Special Paper 3-7
- Paper Type 3-13
- Loading Paper 3-14

4 Using the Operation Panel
- General Information 4-2
- Understanding the Operation Panel 4-3
- Keys 4-6
- Using the Menu Selection System 4-12
- Setting a Mode Selection Menu 4-14
- Report Print 4-15
- USB Memory (USB memory selection) 4-20
- Custom Box 4-23
- Job Box 4-27
- Counter (Viewing the counter value) 4-39
- Paper Settings 4-41
- Print Settings 4-53
- Network (Network settings) 4-64
- Optional Network (Optional Network settings) 4-73
- Device Common (Selecting/Setting the common device) 4-78
- Security (Security function setting) 4-98
- Job Account.Set. (Job Account setting) 4-107
- Administrator (Administrator settings) 4-116
- Adjust/Maint. (Adjust/Maintenance selection/setting) 4-119

5 Maintenance
- General Information 5-2
- Toner Container Replacement 5-2
- Replacing the Waste Toner Box 5-6
- Cleaning the Printer 5-8

6 Troubleshooting
- General Guidelines 6-2
- Print Quality Problems 6-3

Error Messages 6-5
Clearing Paper Jams 6-14

Appendix
Interface A-2
USB Interface A-2
Network Interface A-3
About the Options A-5
Expansion Memory Modules A-6
Specifications A-11

Glossary

Index

Legal and Safety Information

CAUTION NO LIABILITY IS ASSUMED FOR ANY DAMAGE CAUSED BY IMPROPER INSTALLATION.

Notice on Software

SOFTWARE USED WITH THIS PRINTER MUST SUPPORT THE PRINTER'S EMULATION MODE. The printer is factory-set to emulate the PCL.

Notice

The information in this guide is subject to change without notification. Additional pages may be inserted in future editions. The user is asked to excuse any technical inaccuracies or typographical errors in the present edition.

No responsibility is assumed if accidents occur while the user is following the instructions in this guide. No responsibility is assumed for defects in the printer's firmware (contents of its read-only memory).

This guide, any copyrightable subject matter sold or provided with or in connection with the sale of the page printer, are protected by copyright. All rights are reserved. Copying or other reproduction of all or part of this guide, any copyrightable subject matter without the prior written consent of Copyright owner is prohibited. Any copies made of all or part of this guide, any copyrightable subject must contain the same copyright notice as the material from which the copying is done.

Regarding Tradenames

PRESCRIBE and KPDL are trademarks of Kyocera Corporation.

Microsoft, Windows, Windows XP, Windows Server 2003, Windows Vista, Windows Server 2008, Windows 7, Windows Server 2012, Windows 8 and Internet Explorer are registered trademarks or trademarks of Microsoft Corporation in the U.S.A. and/or other countries.

PCL is a trademark of Hewlett-Packard Company.

Adobe Acrobat, Adobe Reader and PostScript are trademarks of Adobe Systems, Incorporated.

Ethernet is a registered trademark of Xerox Corporation.

NetWare is a registered trademark of Novell, Inc.

IBM is a registered trademark of International Business Machines Corporation.

AppleTalk, Bonjour, Macintosh, and Mac OS are trademarks of Apple Inc., registered in the U.S. and other countries.

All European language fonts installed in this machine are used under licensing agreement with Monotype Imaging Inc.

Helvetica, Palatino and Times are registered trademarks of Linotype GmbH.

ITC Avant Garde Gothic, ITC Bookman, ITC ZapfChancery and ITC ZapfDingbats are registered trademarks of International Typeface Corporation.

UFST™ MicroType® fonts by Monotype Imaging Inc. are installed in this machine.

AirPrint and the AirPrint logo are trademarks of Apple Inc.

iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license by Apple Inc.

All other brands and product names are registered trademarks or trademarks of their respective companies. Thedesignations ™ and ® will not be used in this Operation Guide.

License Agreements

Typeface Trademark Acknowledgement

All resident fonts in this printer are licensed from Monotype Imaging Inc.

Helvetica, Palatino and Times are registered trademarks of Linotype-Hell AG. ITC Avant Garde Gothic, ITC Bookman, ITC ZapfChancery and ITC Zapf Dingbats are registered trademarks of International Typeface Corporation.

Monotype Imaging License Agreement

1 "Software" shall mean the digitally encoded, machine readable, scalable outline data as encoded in a special format as well as the UFST Software.

2 You agree to accept a non-exclusive license to use the Software to reproduce and display weights, styles and versions of letters, numerals, characters and symbols ("Typefaces") solely for your own customary business or personal purposes at the address stated on the registration card you return to Monotype Imaging. Under the terms of this License Agreement, you have the right to use the Fonts on up to three printers. If you need to have access to the fonts on more than three printers, you need to acquire a multi-user license agreement which can be obtained from Monotype Imaging. Monotype Imaging retains all rights, title and interest to the Software and Typefaces and no rights are granted to you other than a License to use the Software on the terms expressly set forth in this Agreement.

3 To protect proprietary rights of Monotype Imaging, you agree to maintain the Software and other proprietary information concerning the Typefaces in strict confidence and to establish reasonable procedures regulating access to and use of the Software and Typefaces.

4 You agree not to duplicate or copy the Software or Typefaces, except that you may make one backup copy. You agree that any such copy shall contain the same proprietary notices as those appearing on the original.

5 This License shall continue until the last use of the Software and Typefaces, unless sooner terminated. This License may be terminated by Monotype Imaging if you fail to comply with the terms of this License and such failure is not remedied within thirty (30) days after notice from Monotype Imaging. When this License expires or is terminated, you shall either return to Monotype Imaging or destroy all copies of the Software and Typefaces and documentation as requested.

6 You agree that you will not modify, alter, disassemble, decrypt, reverse engineer or decompile the Software.

7 Monotype Imaging warrants that for ninety (90) days after delivery, the Software will perform in accordance with Monotype Imaging-published specifications, and the diskette will be free from defects in material and workmanship. Monotype Imaging does not warrant that the Software is free from all bugs, errors and omissions.

8 THE PARTIES AGREE THAT ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY, ARE EXCLUDED.

9 Your exclusive remedy and the sole liability of Monotype Imaging in connection with the Software and Typefaces is repair or replacement of defective parts, upon their return to Monotype Imaging.

10 IN NO EVENT WILL MONOTYPE IMAGING BE LIABLE FOR LOST PROFITS, LOST DATA, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES CAUSED BY ABUSE OR MISAPPLICATION OF THE SOFTWARE AND TYPEFACES.

11 Massachusetts U.S.A. law governs this Agreement.

12 You shall not sublicense, sell, lease, or otherwise transfer the Software and/or Typefaces without the prior written consent of Monotype Imaging.

13 Use, duplication or disclosure by the Government is subject to restrictions as set forth in the Rights in Technical Data and Computer Software clause at FAR 252-227-7013, subdivision (b)(3)(ii) or subparagraph (c)(1)(ii), as appropriate. Further use, duplication or disclosure is subject to restrictions applicable to restricted rights software as set forth in FAR 52.227-19 (c)(2).

14 YOU ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, UNDERSTAND IT, AND AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS. NEITHER PARTY SHALL BE BOUND BY ANY STATEMENT OR REPRESENTATION NOT CONTAINED IN THIS AGREEMENT. NO CHANGE IN THIS AGREEMENT IS EFFECTIVE UNLESS WRITTEN AND SIGNED BY PROPERLY AUTHORIZED REPRESENTATIVES OF EACH PARTY. BY OPENING THIS DISKETTE PACKAGE, YOU AGREE TO ACCEPT THE TERMS AND CONDITIONS OF THIS AGREEMENT.

GPL/LGPL

This product contains GPL (http://www.gnu.org/licenses/gpl.html) and/or LGPL (http://www.gnu.org/licenses/lgpl.html) software as part of its firmware. You can get the source code, and you are permitted to copy, redistribute and modify it under the terms of GPL/LGPL.

Open SSLeay License

Copyright © 1998-2006 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1 Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2 Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3 All advertising materials mentioning features or use of this software must display the following acknowledgment:
"This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (http://www.openssl.org/)"

4 The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission.
For written permission, please contact openssl-core@openssl.org.

5 Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.

6 Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Original SSLeay License

Copyright © 1995-1998 Eric Young (eay@cryptsoft.com) All rights reserved.

This package is an SSL implementation written by Eric Young (eay@cryptsoft.com). The implementation was written so as to conform with Netscapes SSL.

This library is free for commercial and non-commercial use as long as the following conditions are adhered to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed.

If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used.

This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1 Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.

2 Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3 All advertising materials mentioning features or use of this software must display the following acknowledgement:
"This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)"
The word 'cryptographic' can be left out if the rouines from the library being used are not cryptographic related :-).

4 If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement:
"This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The licence and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution licence [including the GNU Public Licence.]

Compliance and Conformity

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- The use of a non-shielded interface cable with the referenced device is prohibited.

CAUTION — The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules.

Operation is subject to the following two conditions; (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

* The above warning is valid only in the United States of America.

Interface connectors

IMPORTANT Be sure to power off the printer before connecting or disconnecting an interface cable. For protection against static electricity discharge to the printer's internal electronics through the interface connector(s), cover any interface connector that is not in use with the protective cap supplied.

Note Use shielded interface cables.

Safety Information

Laser Safety

This printer is certified as a Class 1 laser product under the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard according to Radiation Control for Health and Safety Act of 1968. This means that the printer does not produce hazardous laser radiation. Since radiation emitted inside the printer is completely confined within protective housings and external covers, the laser beam cannot escape from the printer during any phase of user operation.

Laser Notice

This printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR Subchapter for Class I (1) laser products, and elsewhere is certified as a Class I laser product conforming to the requirements of IEC/EN 60825-1:2007.

DANGER CLASS 3B LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.

CAUTION Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Radio Frequency Transmitter

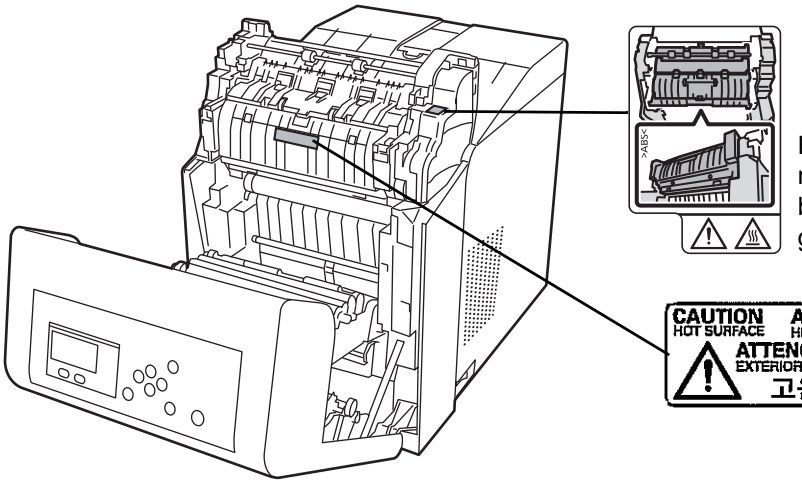
This machine contains a transmitter module. We, the manufacturer hereby declare that this equipment (page printer), model P-C3570DN is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Radio Tag Technology

In some countries, the radio tag technology used in this equipment to identify the toner container may be subject to authorization, and the use of this equipment may consequently be restricted.

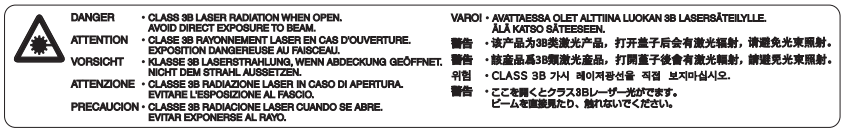
Cautionary Labels

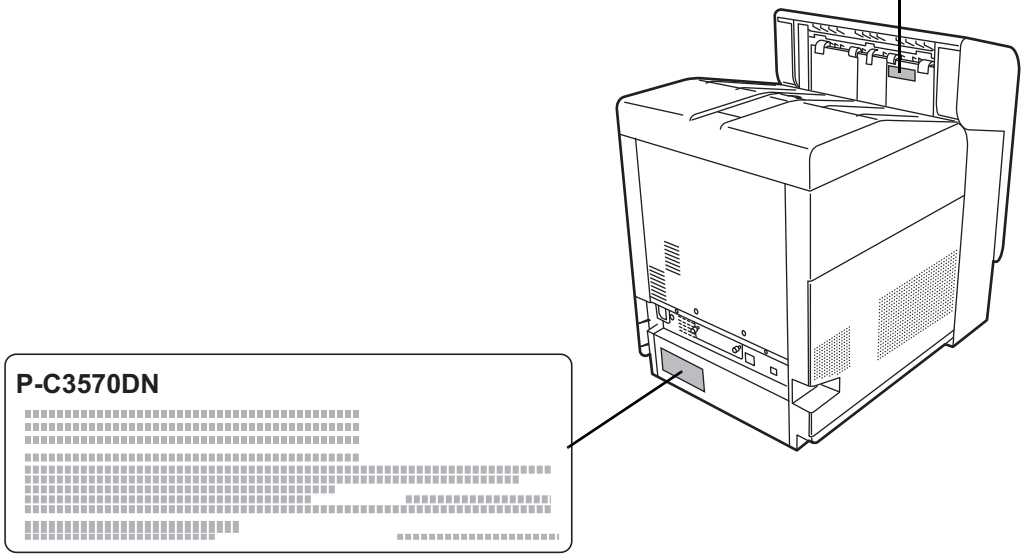
The printer bears any of the following labels.



High temperature inside. Do not touch parts in this area, because there is a danger of getting burned.

Label inside the printer (Laser radiation warning)


DANGER • CLASS 3B LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
ATTENTION • CLASE 3B RAYONNEMENT LASER EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
VORSICHT • KLASSE 3B LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
ATTENZIONE • CLASSE 3B RADIAZIONE LASER IN CASO DI APERTURA. EVITARE L'ESPOSIZIONE AL FASCIO.
PRECAUCION • CLASE 3B RADIACION LASER CUANDO SE ABRE. EVITAR EXPONERSE AL RAYO.
VARO! • AVATTAESSA OLET ALTTIINA LUOKAN 3B LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
警告 • 该产品为3B类激光产品，打开盖子后会有激光辐射，请避免光束照射。
警告 • 該產品爲3B類激光產品，打開蓋子後會有激光輻射，請避免光束照射。
위험 • CLASS 3B 가시 레이저광선을 직접 보지마십시오.
警告 • ここを開くとクラス3Bレーザー光がでます。ビームを直接見たり、触れないでください。



CDRH Regulations

The Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration implemented regulations for laser products on August 2, 1976. These regulations apply to laser products manufactured after August 1, 1976. Compliance is mandatory for products marketed in the United States. A label indicating compliance with the CDRH regulations must be attached to laser products marketed in the United States.

Ozone concentration

The printers generate ozone gas (O_3) which may concentrate in the place of installation and cause an unpleasant smell. To minimize the concentration of ozone gas to less than 0.1 ppm, we recommend you not to install the printer in a confined area where ventilation is blocked.

Safety Instructions Regarding the Disconnection of Power

Caution: The power plug is the main isolation device! Other switches on the equipment are only functional switches and are not suitable for isolating the equipment from the power source.

VORSICHT: Der Netzstecker ist die Hauptisoliervorrichtung! Die anderen Schalter auf dem Gerät sind nur Funktionsschalter und können nicht verwendet werden, um den Stromfluß im Gerät zu unterbrechen.

CE

DECLARATION OF CONFORMITY
TO
2004/108/EC, 2006/95/EEC, 93/68/EEC, 1999/5/EC and 2005/32/EC

We declare under our sole responsibility that the product to which this declaration relates is in conformity with the following specifications.

EN55024
EN55022 Class B
EN61000-3-2
EN61000-3-3
EN60950-1
EN60825-1
EN300 330-1
EN300 330-2
EN62301

Canadian Department of Communications Compliance Statement

This Class B digital apparatus complies with Canadian ICES-003.

Avis de conformité aux normes du ministère des Communications du Canada

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

EN ISO 7779

Maschinenlärminformations-Verordnung 3. GPSGV, 06.01.2004: Der höchste Schalldruckpegel beträgt 70 dB (A) oder weniger gemäß EN ISO 7779.

Disclaimer

We will not be liable to customers or any other person or entity for any loss or damage caused or alleged to be caused directly or indirectly by equipment sold or furnished by us, including but not limited to, any interruption of service, loss of business or anticipatory profits, or consequential damages resulting from the use or operation of the equipment or software.

Energy Saving Control Function

The device comes equipped with a **Low Power Mode** where energy consumption is reduced after a certain amount of time elapses since the device was last used, as well as a **Sleep** where printer functions remain in a waiting state but power consumption is still reduced to a minimum when there is no activity with the device within a set amount of time.

Low Power Mode

The device automatically enters Low Power Mode when 1 minute has passed since the device was last used. The amount of time of no activity that must pass before Low Power Mode is activated may be lengthened. For more information refer to *Low Power Timer (Low Power Mode timer timeout time) on page 4-91*.

Sleep

The device automatically enters Sleep when 15 minutes have passed since the device was last used. The amount of time of no activity that must pass before Sleep is activated may be lengthened. For more information, refer to *Sleep Timer (Sleep timer timeout time) on page 4-94*.

Automatic 2-Sided Print Function

This device includes 2-sided printing as a standard function. For example, by printing two 1-sided originals onto a single sheet of paper as a 2-sided print, it is possible to lower the amount of paper used. For more information refer to *Duplex (Setting the duplex printing) on page 4-56*.

Printing in duplex mode reduces paper consumption and contributes to the conservation of forest resources. Duplex mode also reduces the amount of paper that must be purchased, and thereby reduces cost. It is recommended that machines capable of duplex printing be set to use duplex mode by default.

Resource Saving - Paper

For the preservation and sustainable use of forest resources, it is recommended that recycled as well as virgin paper certified under environmental stewardship initiatives or carrying recognised ecolabels, which meet EN 12281:2002[*1] or an equivalent quality standard, be used.

This machine also supports printing on 64 g/m² paper. Using such paper containing less raw materials can lead to further saving of forest resources.

*1: EN12281:2002 "Printing and business paper - Requirements for copy paper for dry toner imaging processes"

Your sales or service representative can provide information about recommended paper types.

Environmental benefits of "Power Management"

To reduce power consumption when idle, this machine is equipped with a power management function that automatically activates energy-saving mode when the machine is idle for a certain period of time.

Although it takes the machine a slight amount of time to return to READY mode when in energy-saving mode, a significant reduction in energy consumption is possible. It is recommended that the machine be used with the activation time for energy-saving mode set to the default setting.

Energy Star (ENERGY STAR®) Program

We have determined as a participating company in the International Energy Star Program that this product is compliant with the standards laid out in the International Energy Star Program.

ENERGY STAR® is a voluntary energy efficiency program with the goal of developing and promoting the use of products with high energy efficiency in order to help prevent global warming. By purchasing ENERGY STAR® qualified products, customers can help reduce emissions of greenhouse gases during product use and cut energy-related costs.

Installation Precautions

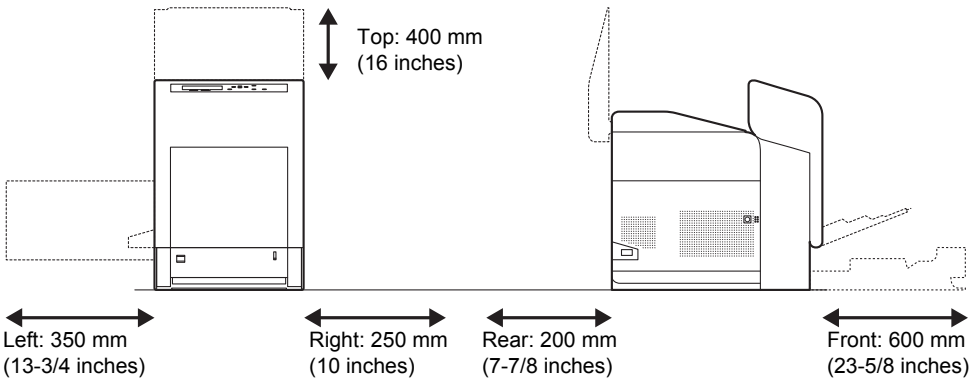
Environment

CAUTION Avoid placing the printer on or in locations which are unstable or not level. Such locations may cause the printer to fall. This type of situation presents a danger of personal injury or damage to the printer.

Avoid locations with humidity or dust and dirt. If dust or dirt becomes attached to the power plug, clean the plug to avoid the danger of fire or electrical shock.

Avoid locations near radiators, heaters, or other heat sources, or locations near flammable items, to avoid the danger of fire.

To keep the printer cool and facilitate changing of parts and maintenance, allow access space as shown below. Leave adequate space, especially around the side cover, to allow air to be properly ventilated from the printer.



Other Precautions

Adverse environmental conditions may affect the safe operation and performance of the printer. Install in an air-conditioned room (recommended room temperature: around 23 °C, humidity: around 60 % RH) and avoid the following locations when selecting a site for the printer.

- Avoid locations near a window or with exposure to direct sunlight.
- Avoid locations with vibrations.
- Avoid locations with drastic temperature fluctuations.
- Avoid locations with direct exposure to hot or cold air.
- Avoid poorly ventilated locations.

If the flooring is of a soft material, it may be damaged by the casters when this product is moved after installation.

Power Supply/Grounding the Printer

WARNING Do not use a power supply with a voltage other than that specified. Avoid multiple connections in the same outlet. These types of situations present a danger of fire or electrical shock.
Plug the power cord securely into the outlet. If metallic objects come in contact with the prongs on the plug, it may cause a fire or electric shock.
Always connect the printer to an outlet with a ground connection to avoid the danger of fire or electrical shock in case of an electric short. If an earth connection is not possible, contact your service representative.

Other Precautions

Connect the power plug to the closest outlet possible to the printer.

Handling of Plastic Bags

WARNING Keep the plastic bags that are used with the printer away from children. The plastic may cling to their nose and mouth causing suffocation.

Precautions for Use

Cautions when Using the Printer

- **Do not** place metallic objects or containers with water (flower vases, flower pots, cups, etc.) on or near the printer. This type of situation presents a danger of fire or electrical shock should they fall inside.
- **Do not** remove any of the covers from the printer as there is a danger of electrical shock from high voltage parts inside the printer.
- **Do not** damage, break or attempt to repair the power cord. Do not place heavy objects on the cord, pull it, bend it unnecessarily or cause any other type of damage.These types of situations present a danger of fire or electrical shock.
- **Never** attempt to repair or disassemble the printer or its parts as there is a danger of fire, electrical shock or damage to the laser. If the laser beam escapes, there is a danger of it causing blindness.
- If the printer becomes excessively hot, smoke appears from the printer, there is an odd smell, or any other abnormal situation occurs, there is a danger of fire or electrical shock. Turn the power switch OFF (○) immediately, remove the power plug from the outlet and contact your service representative.
- If anything harmful (paper clips, water, other fluids, etc.) falls into the printer, turn the power switch OFF (○) immediately. Next, remove the power plug from the outlet to avoid the danger of fire or electrical shock. Then contact your service representative.
- **Do not** remove or connect the power plug with wet hands, as there is a danger of electrical shock.
- **Always** contact your service representative for maintenance or repair of internal parts.
- **Do not** pull the power cord when removing it from the outlet. If the power cord is pulled, the wires may become broken and there is a danger of fire or electrical shock. (Always grasp the power plug when removing the power cord from the outlet.)
- **Always** remove the power plug from the outlet when moving the printer. If the power cord is damaged, there is a danger of fire or electrical shock.
- If the printer will not be used for a short period of time (overnight, etc.), turn the power switch OFF (○). If it will not be used for an extended period of time (vacations, etc.), remove the power plug from the outlet for safety purposes during the time the printer is not in use.
- For safety purposes, **always** remove the power plug from the outlet when performing cleaning operations.
- If dust accumulates within the printer, there is a danger of fire or other trouble. It is therefore recommended that you consult with your service representative in regard to cleaning of internal parts. This is particularly effective if accomplished prior to seasons of high humidity. Consult with your service representative in regard to the cost of cleaning the internal parts of the printer.

Other Precautions

- **Do not** place heavy objects on the printer or cause other damage to the printer.
- **Do not** open the top/left/rear cover, turn off the main switch, or pull out the power plug during printing.
- During printing, some ozone is released, but the amount does not cause any ill effect to one's health. If, however, the printer is used over a long period of time in a poorly ventilated room or when printing an extremely large number of copies, the smell may become unpleasant. To maintain the appropriate environment for print work, it is suggested that the room be properly ventilated.
- **Do not** touch electrical parts, such as connectors or printed circuit boards. They could be damaged by static electricity.
- **Do not** attempt to perform any operations not explained in this handbook.
- If the printer will not be used for an extended period of time, remove the paper from the cassette, return it to its original package and reseal it.

CAUTION Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Cautions for Toner Handling

- **Do not** incinerate toner and toner containers. Dangerous sparks may cause burn.
- **Never** open the toner container.
- **Do not** inhale the toner.
- If you get toner on your hands, **do not** rub your eyes or touch your mouth. Wash the toner from your hands.
- For the disposal of the old toner container, consult your service technician or dispose of the toner or toner containers in accordance with Federal, State and Local rules and regulations.

About the Operation Guide

This Operation Guide has the following chapters:

Chapter 1 - Machine Parts

This chapter explains the names of parts.

Chapter 2 - Printing Operation

This chapter explains how to print from your workstation.

Chapter 3 - Handling Paper

This chapter explains how to replace the toner container and how to care for your printer.

Chapter 4 - Using the Operation Panel

This chapter explains how to handle printer problems that may occur, such as paper jams.

Chapter 5 - Maintenance

This chapter lists the printer's specifications.

Chapter 6 - Troubleshooting

This chapter explains how to handle error messages, paper jams and other problems.

Appendix

Lists the fonts installed on the printer and explains the available printer interfaces, the environmental setting commands, the optional products and the printer's specifications.

Conventions

This manual uses the following conventions.

Convention	Description	Example
Italic Typeface	Used to emphasize a key word, phrase or reference to additional information.	To replace the toner container, refer to *Toner Container Replacement on page 3-2.*
Bold	Used to denote buttons on the software.	To start printing, click **OK**.
Braket Bold	Used to denote operation panel keys.	Press **[OK]** Key to resume printing.
Note	Used to provide additional or useful information about a function or feature.	**Note** Check with your network administrator for the network address settings.
Important	Used to provide important information.	**IMPORTANT** Ensure paper is not folded, curled, or damaged.
Caution	Indicates what must be observed to prevent injury or machine breakdown and how to deal with it.	**CAUTION** The fuser unit inside the printer is hot. Do not touch it with your hands as it may result in burn injury. Remove jammed paper carefuly.
Warning	Used to alert users to the possibility of *personal* injury.	**WARNING** High voltage is present in the charger section.

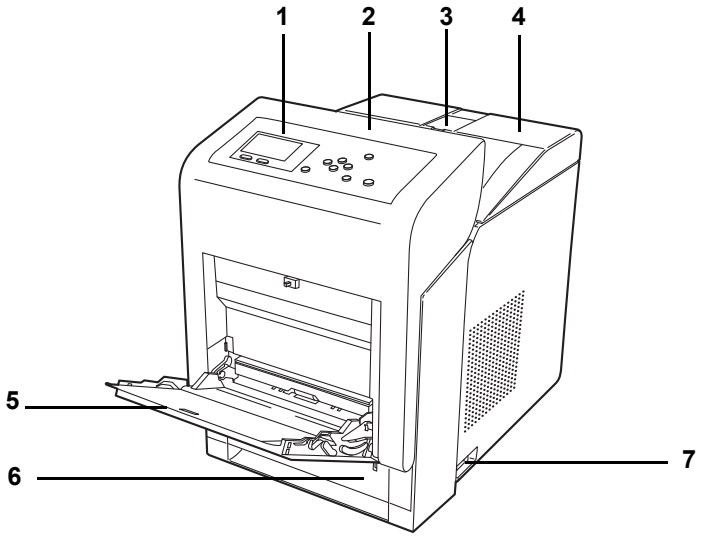
1 Machine Parts

This chapter provides explanations and illustrations for you to determine the parts and their functions. Try to be familiar with the names and functions of these parts for correct use and optimal performance.

This chapter contains explanations on the following topics:

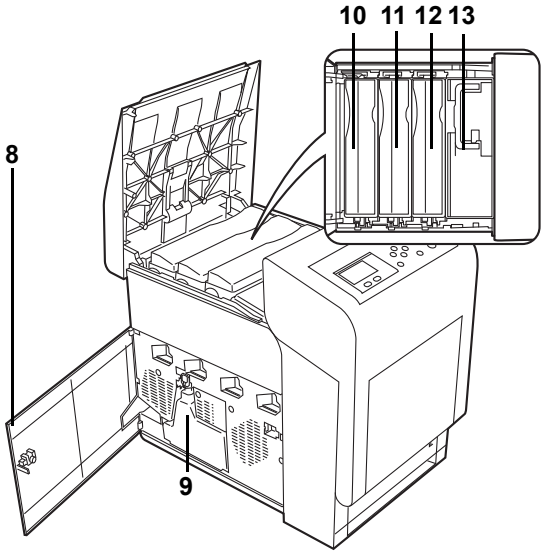
Components at the Front of the Printer 1-2
Components at the Left of the Printer 1-2
Internal Components 1-3
Components at the Rear of the Printer 1-3
Operation Panel 1-4

Components at the Front of the Printer



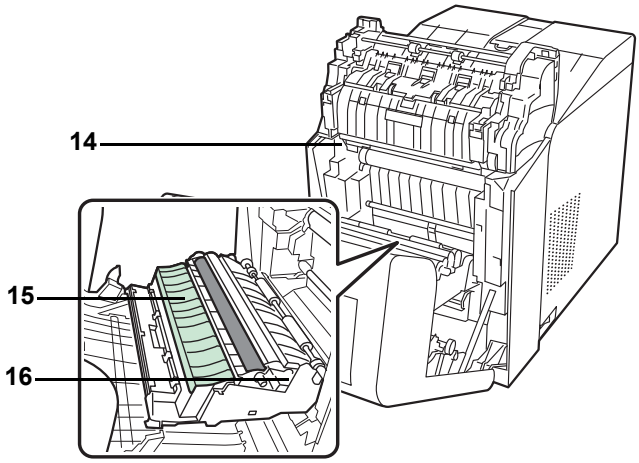
1 Operation Panel
2 Front Cover
3 Paper Stopper
4 Top Cover (Top Tray)
5 MP (Multi-Purpose) Tray
6 Paper Cassette
7 Power Switch

Components at the Left of the Printer



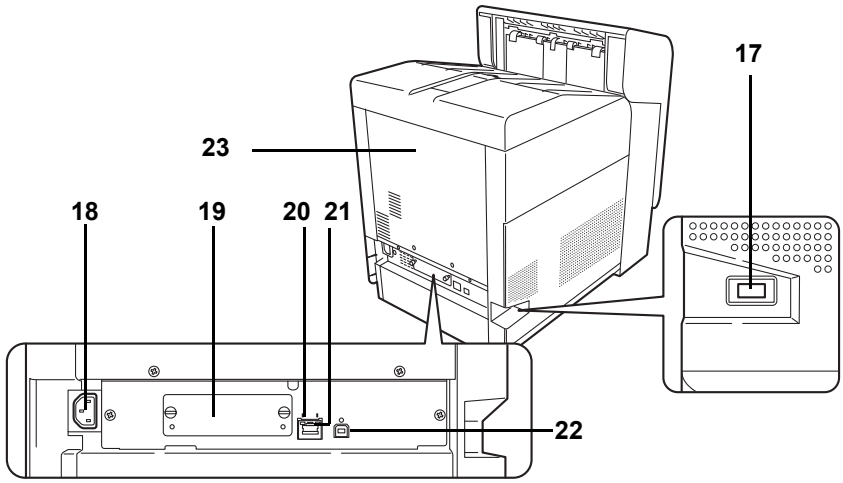
8 Left Cover
9 Waste Toner Box
10 Magenta Toner Container (M)
11 Cyan Toner Container (C)
12 Yellow Toner Container (Y)
13 Black Toner Container (K)

Internal Components



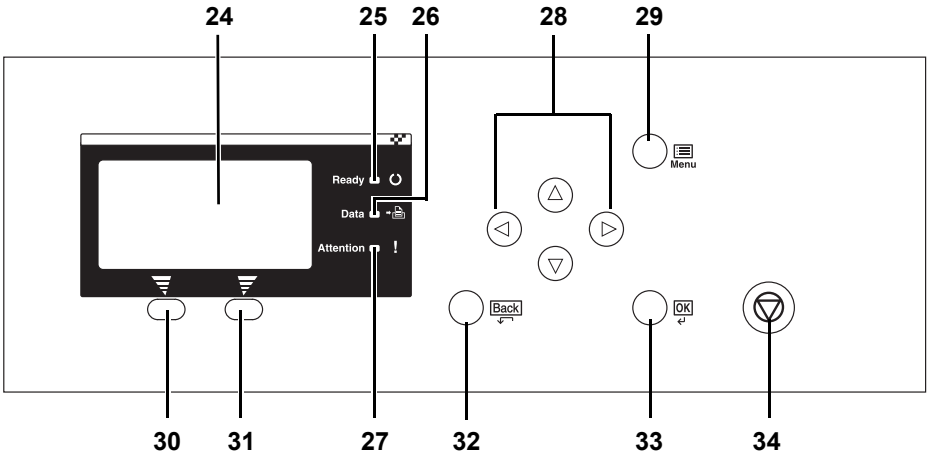
14 Paper Transfer Unit
15 Paper Ramp
16 Duplex Unit

Components at the Rear of the Printer



17 USB Memory Slot
18 Power Cord Connector
19 Option Interface Slot
20 Network Indicators
21 Network Interface Connector
22 USB Interface Connector
23 Rear Cover

Operation Panel



24 Message Display
25 Ready Indicator
26 Data Indicator
27 Attention Indicator
28 Arrow Keys
29 [MENU] Key
30 [Left Select] Key
31 [Right Select] Key
32 [Back] Key
33 [OK] Key
34 [Cancel] Key

2 Printing Operation

This chapter contains explanations on the following topics:

Changing Network Interface Parameters 2-2
Printing a Status Page 2-4
Embedded Web Server RX 2-4
Installing the Printer Driver 2-13
Printing from Application Software 2-20
Printing by AirPrint 2-21
Status Monitor 2-22
Energy Saver Function 2-26

Changing Network Interface Parameters

This printer supports TCP/IP, TCP/IP (IPv6), IPP, SSL Server and the IPSec protocols and Security Level.

The table below shows the items required for each of the settings.

Configure the printer's network parameters as appropriate for your PC and your network environment.

For details of the procedure, refer to the *Using the Operation Panel on page 4-1*.

Note When Embedded Web Server RX is used, network parameters and security settings can be conveniently changed and checked from your PC. For more information, refer to *Embedded Web Server RX User Guide*.
If the optional IB-50 or IB-51 is installed then NetWare and AppleTalk settings are possible. For details, refer to *Optional Network (Optional Network settings) on page 4-73*.

Menu	Submenu			Setting
Network	TCP/IP Settings	TCP/IP		On/Off
		IPv4 Setting	DHCP	On/Off
			Auto-IP	On/Off
			IP Address	IP address
			Subnet Mask	IP address
			Default Gateway	IP address
			Bonjour	On/Off
		IPv6 Setting	TCP/IP(IPv6)	On/Off
			RA(Sateless)	On/Off
			DHCPv6	On/Off
Security	Network Security	WSD-PRINT		On/Off
		Enhanced WSD		On/Off
		EnhancedWSD (SSL)		On/Off
		IPP		On/Off
		SSL Setting	SSL	On/Off
			IPP over SSL	On/Off
			HTTPS	On/Off
		IPSec		On/Off
		LAN Interface		Auto/10BASE-Half/ 10BASE-Full/ 100BASE-Half/ 100BASE-Full/ 1000BASE-T

Note After all network related settings have been done, turn the machine **OFF** and **ON** again. This is mandatory to make the settings effective!

Printing a Status Page

After completing the network settings, print a status page. The status page allows you to confirm a range of information, including network addresses and network protocols.

To print a status page, select `Status Page` from the Report Print menu.

Refer to *Report Print on page 4-15* for detailed information.

Embedded Web Server RX

If the machine is connected to the network, you can configure various settings using Embedded Web Server RX.

This section explains how to access Embedded Web Server RX, and how to change security settings and the host name.

For details on Embedded Web Server RX, refer to the *Embedded Web Server RX User Guide*.

Note To fully access the features of the Embedded Web Server RX pages, enter the User Name and Password and click **Login**. Entering the predefined administrator password allows the user to access all pages, including Document Box, and Settings on the navigation menu. The factory default setting for the default user with administrator privileges is shown below.

Login User Name	**Admin**
Login Password	**Admin**

* Upper case and lower case letters are distinguished (case sensitive).

Settings that the administrator and general users can configure in Embedded Web Server RX are as follows.

Setting	Description	Administ-rator	General User
Device Information	The machine's structure can be checked. **Configuration**, **Counter**, **About Embedded Web Server RX**	○	○
Job Status	Displays all device information, including print jobs and job log history. **Printing Jobs Status**, **Printing Job Log**	○	○
Document Box	Add or delete document boxes, or delete documents within a document box. **Custom Box**, **Job Box Settings**	○	○
Device Settings	Configure the advanced settings of the machine. **Paper/Feed/Output**, **Energy Saver/Timer**, **Date/Time**, **System**	○	—
Function Settings	Configure the advanced function settings. **Common/Job Defaults**, **Printer**, **E-mail**	○	—
Network Settings	Configure the network advanced settings. **General**, **TCP/IP**, **Protocol**	○	—
Security Settings	Configure the security advanced settings. **Device Security**, **Network Security**, **Certificates**	○	—

Setting	Description	Administ-rator	General User
Management Settings	Configure the advanced management settings. **Job Accounting**, **Authentication**, **Notification/Report**, **History Settings**, **SNMP**, **Reset**	○	—

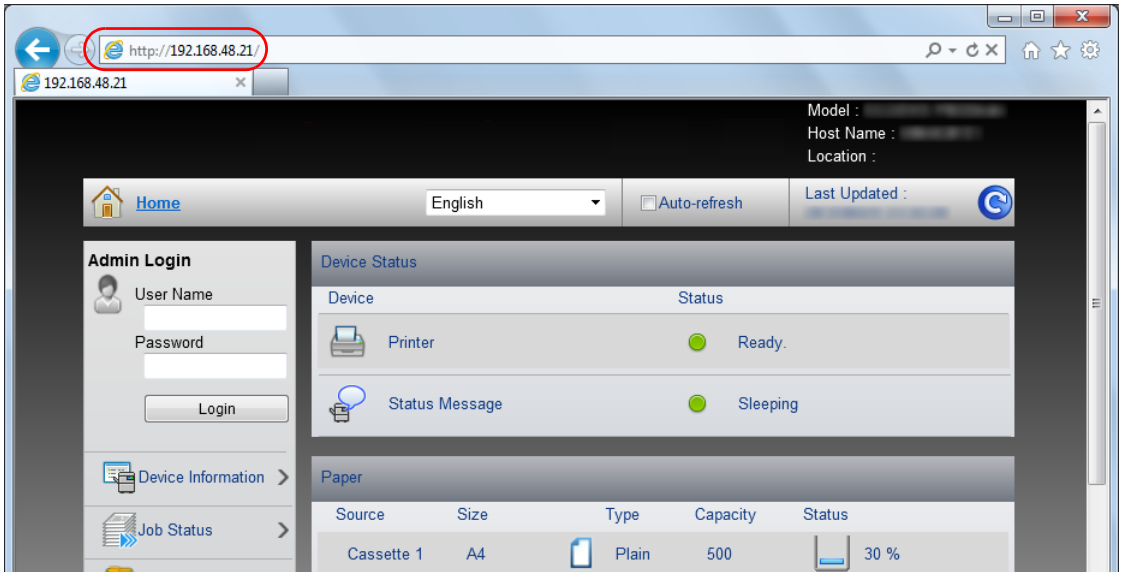
Accessing Embedded Web Server RX

1 Launch your Web browser.

2 In the address or location bar, enter the machine's IP address or the host name.

Examples: https://192.168.48.21/ (for IP address)

https://P001 (if the host name is "P001")



The web page displays basic information about the machine and Embedded Web Server RX as well as their current status.

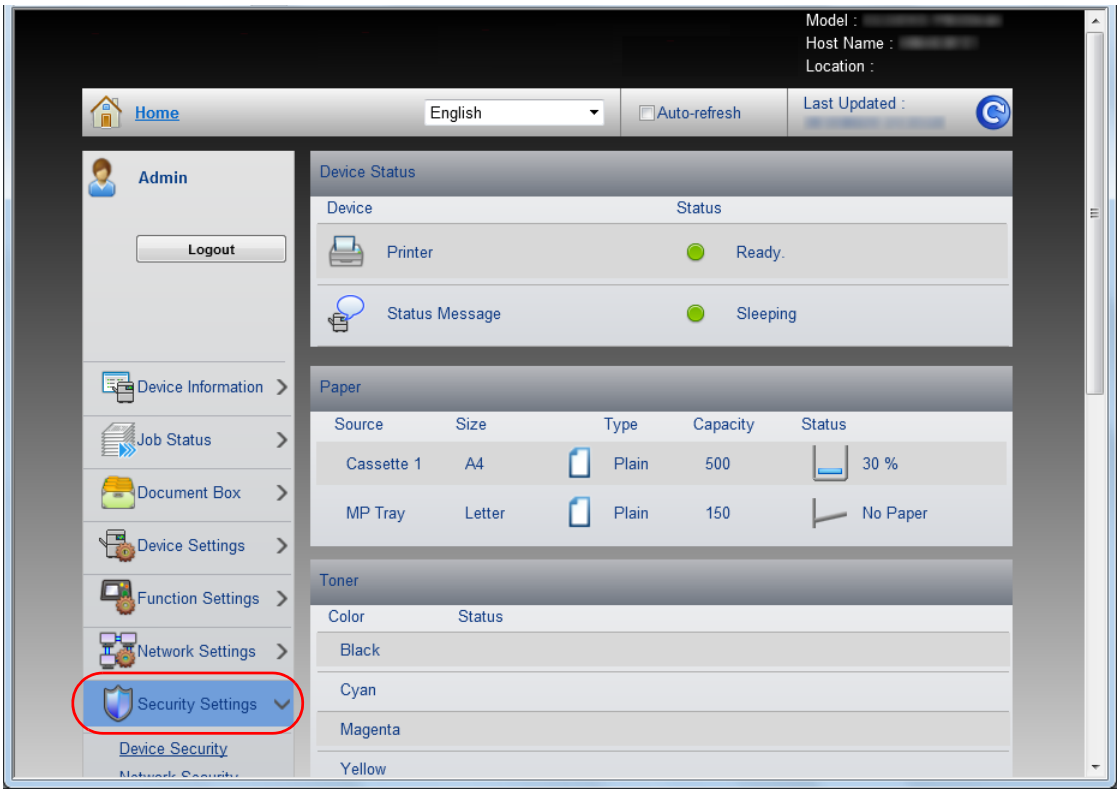
Note If the screen **There is a problem with this website's security certificate.** is displayed, configure the certificate. For details on Certificates, refer to the *Embedded Web Server RX User Guide*.
You can also continue the operation without configuring the certificate.

3 Select a category from the navigation bar on the left of the screen. When you log in to the machine as an administrator, you will see **Device Settings**, **Function Settings**, **Network Settings**, **Security Settings**, and **Management Settings**.

Changing Security Settings

This section explains how to change the security settings.

1. Access Embedded Web Server RX by referring to *Accessing Embedded Web Server RX on page 2-5*.
2. From the **Security Settings** menu, select the setting you want to configure. The configurable settings are **Device Security**, **Network Security**, and **Certificates**.



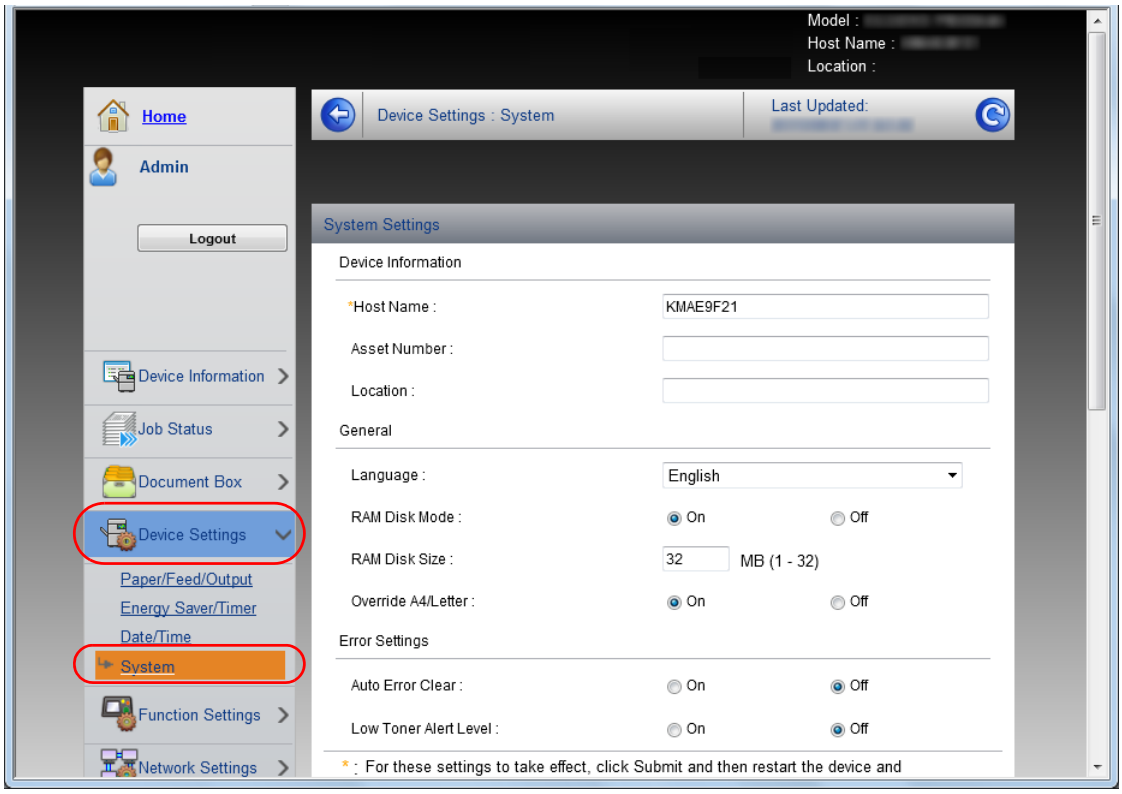
Note The configurable settings within **Device Security** and **Network Security** can also be configured from the machine's System Menu. For details, refer to *Using the Operation Panel on page 4-1*.
For details on settings related to certificates, refer to the *Embedded Web Server RX User Guide*.

Changing Device Information

Change the device information of the machine.

1 Access Embedded Web Server RX by referring to *Accessing Embedded Web Server RX on page 2-5*.

2 From the **Device Settings** menu, select **System**.



3 Enter the device information, and then click **Submit**.

IMPORTANT After changing the setting, restart the network or turn the machine OFF and then ON.
To restart the network interface card, click **Reset** in the **Management Settings** menu, and then click **Restart Network** in **Restart**.

E-mail settings

By configuring the SMTP settings, you can send E-mail notifications on completed jobs.

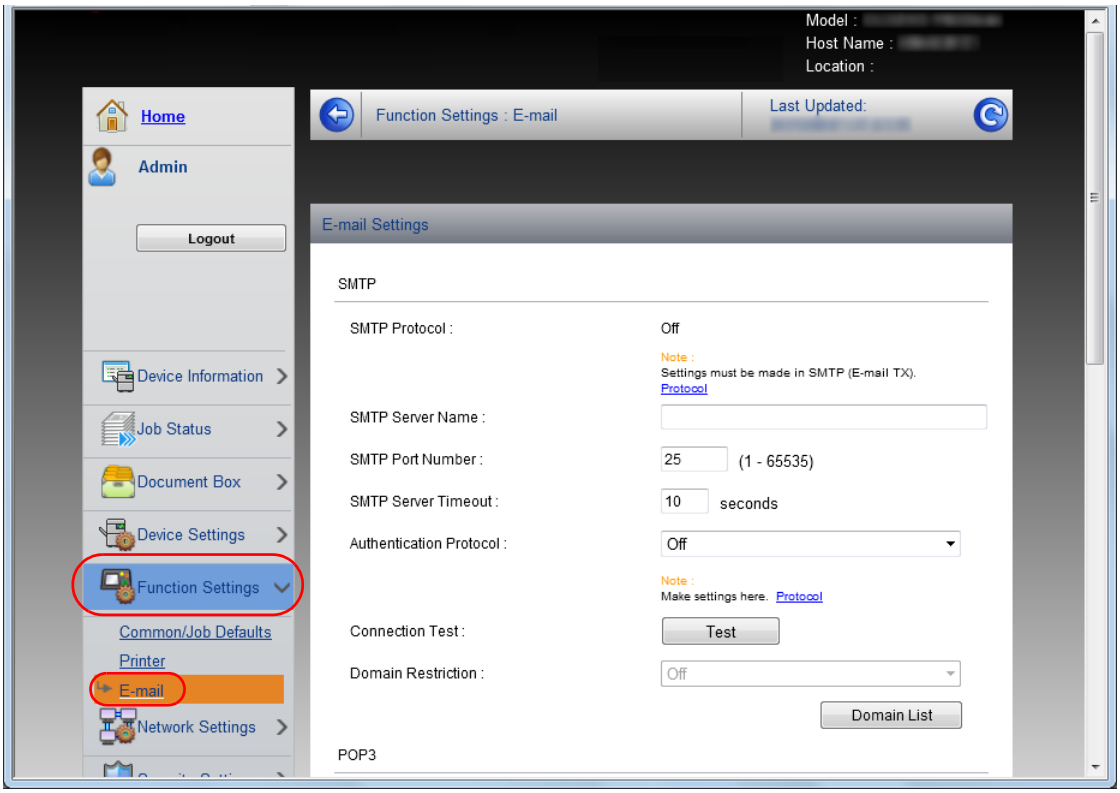
To use this function, this machine must be connected to a mail server using the SMTP protocol.

In addition, check the following.

- The network environment used to connect this machine to the mail server
  A full-time connection via a LAN is recommended.
- SMTP settings
  Use Embedded Web Server RX to register the IP address or host name of the SMTP server.
- If limits have been set on the size of E-mail messages, it may not be possible to send very large E-mails.

The procedure for specifying the SMTP settings is explained below.

1. Access Embedded Web Server RX by referring to *Accessing Embedded Web Server RX on page 2-5*.
2. From the **Function Settings** menu, click **E-mail**.



3 Enter the appropriate values to each field.

Setting		Description
SMTP		Set to send e-mail from the machine.
	SMTP Protocol	Set SMTP protocol. Set the **SMTP (E-mail TX)** setting to **On** on the **Protocol Settings** page.
	SMTP Server Name	Enter the host name or IP address of the SMTP server.
	SMTP Port Number	Specify the port number to be used for SMTP. Use the SMTP default port 25.
	SMTP Server Timeout	Set the amount of time to wait before time-out in seconds.
	Authentication Protocol	Set whether SMTP authentication is used. To use authentication, enter the user information for authentication.
	SMTP Security	Set SMTP security. Turn on **SMTP Security** in **SMTP (E-mail TX)** on the **Protocol Settings** page.
	POP before SMTP Timeout	Specify the time in seconds until the connection to the POP server times outs. This can be set when **POP before SMTP** is selected in **Authentication Protocol**.
	Connection Test	Tests to confirm that the settings are correct.
	Domain Restriction	Set whether or not domains are restricted. Click the **Domain List** and enter the domain names of addresses to be allowed or rejected. Restriction can also be specified by e-mail address.
POP3		Set to receive e-mail at the machine.
	POP3 Protocol	Set POP3 protocol. Set the **POP3 (E-mail RX)** setting to **On** on the **Protocol Settings** page.
	Check Interval	Specify the interval for checking for incoming e-mail in minutes.
	Run once now	Click **Receive** to connect to the POP3 server immediately and check for incoming E-mails.
	Domain Restriction	Set whether or not domains are restricted. Click the **Domain List** and enter the domain names of addresses to be allowed or rejected. Restriction can also be specified by e-mail address.
	POP3 User Settings	Configure the settings for POP3 user accounts and the POP3 server. You can configure up to three users.

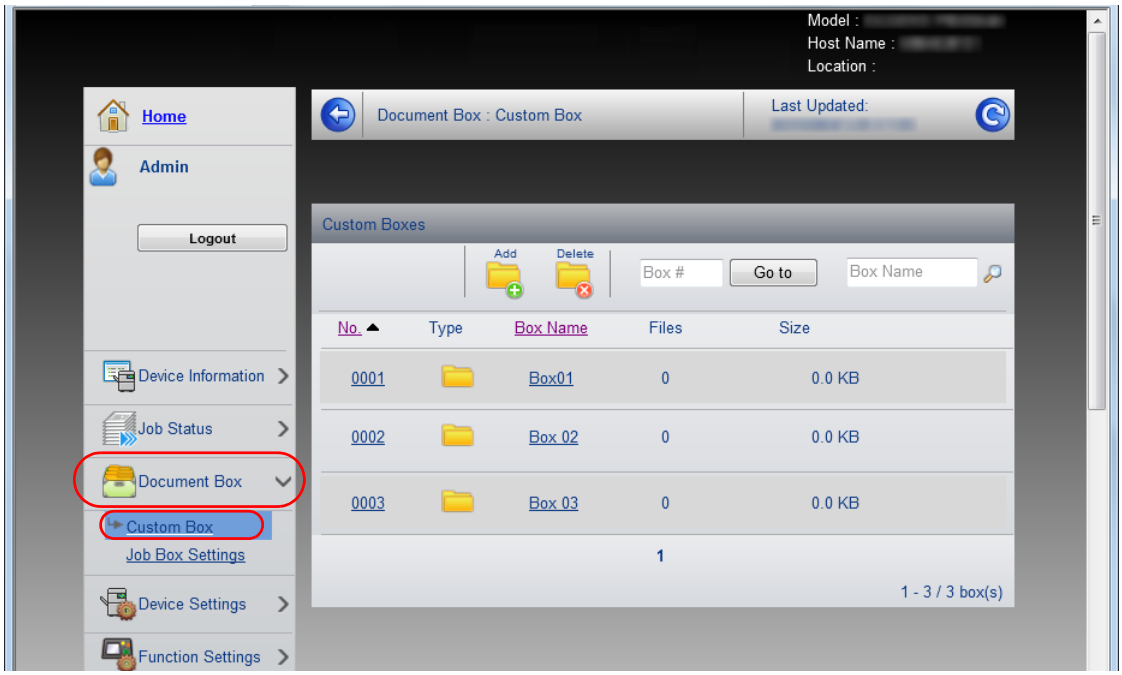
Setting		Description
E-mail Send Settings	**E-mail Size Limit**	Enter the maximum size of E-mail that can be sent in kilobytes. When E-mail size is greater than this value, an error message appears and E-mail sending is cancelled. Use this setting if you have set E-mail Size Limit for SMTP server. If not, enter a value of 0 (zero) to enable E-mail sending regardless of the size limit.
	Sender Address	Enter the E-mail address of the person responsible for the machine, such as the machine administrator, so that a reply or non-delivery report will go to a person rather than to the machine. The sender address must be entered correctly for SMTP authentication. The maximum length of the sender address is 128 characters.
	Signature	Enter the signature. The signature is free form text that will appear at the end of the E-mail body. It is often used for further identification of the machine. The maximum length of the signature is 512 characters.
	Function Default	Change the function default settings in **Common/Job Defaults Settings** page.

4 Click **Submit**.

Registering a Custom Box

You can register a custom box from Embedded Web Server RX.

1. Access Embedded Web Server RX by referring to *Accessing Embedded Web Server RX on page 2-5*.
2. From the **Document Box** menu, click **Custom Box**.



3. Click **Add**.
4. Enter the box details.

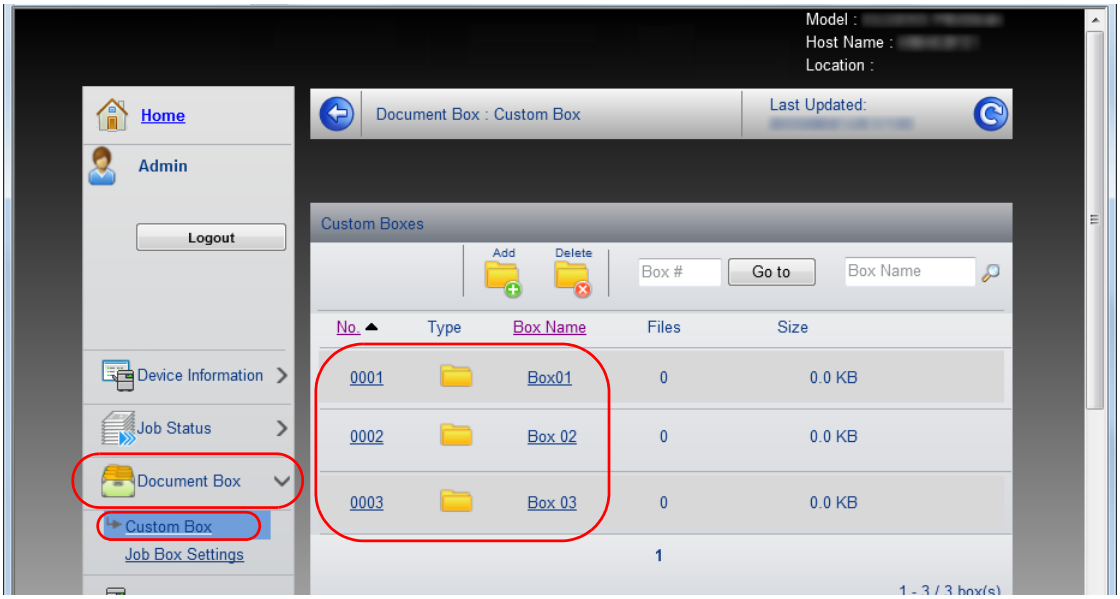
   Enter the information for the custom box you want to register. For details, refer to *Embedded Web Server RX User Guide*.
5. Click **Submit**.

Printing a document stored in a Custom Box

A document stored in a Custom Box can be printed from Embedded Web Server RX.

1 Access Embedded Web Server RX by referring to *Accessing Embedded Web Server RX on page 2-5*.

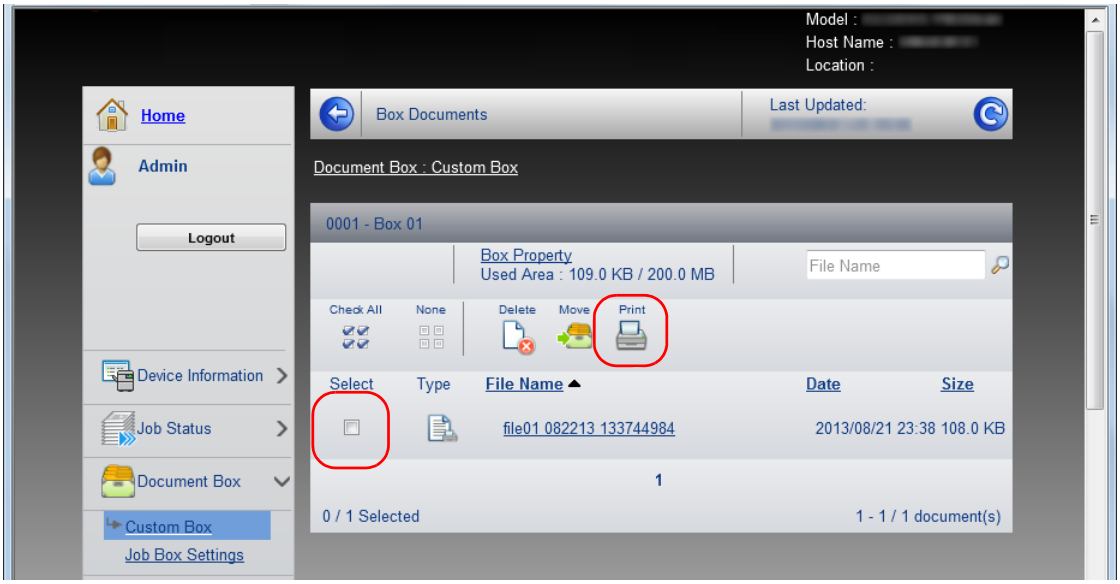
2 From the **Document Box** menu, click **Custom Box**.



3 Click the number or name of the Custom Box in which the document is stored.

4 Select the document you wish to print.

Select the checkbox of the document to be printed.



5 Click **Print**.

6 For settings that are configurable, refer to *Embedded Web Server RX User Guide*.

Installing the Printer Driver

Ensure the printer is plugged in and connected to the PC before installing the printer driver from the DVD-ROM. The printer driver is necessary to print data created in an application.

For details on the printer driver, refer to *Printing System Driver User Guide* on the DVD-ROM.

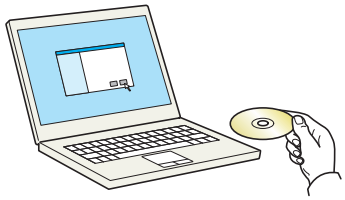
Note Installation on Windows must be done by a user logged on with administrator privileges.
When connected by USB cable, Plug and Play is disabled on this device when in Sleep mode. To continue the installation, press the **GO** key to wake the device from Low Power Mode or Sleep before continuing.
KX XPS DRIVER cannot be installed on Windows XP.

Installing Printer Driver in Windows

Express Install

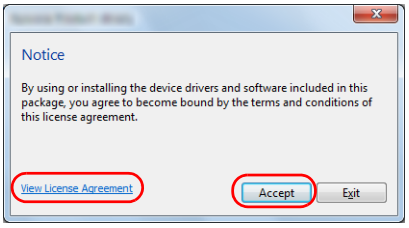
The following procedure is an example for installing the software in Windows 7 using **Express Install**.

For details, refer to Custom Installation in the *Custom Install on page 2-15*.



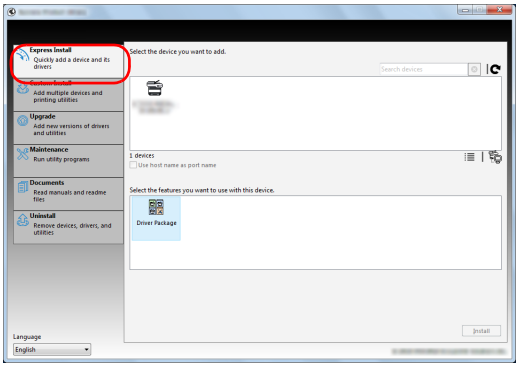
1 Insert the DVD-ROM.

Note Installation on Windows must be done by a user logged on with administrator privileges.
If the **Welcome to the Found New Hardware Wizard** dialog box displays, select **Cancel**.
If the autorun screen is displayed, click **Run setup.exe**.
If the user account management window appears, click **Yes** (**Allow**).


Notice
By using or installing the device drivers and software included in this package, you agree to become bound by the terms and conditions of this license agreement.
View License Agreement
Accept
Exit

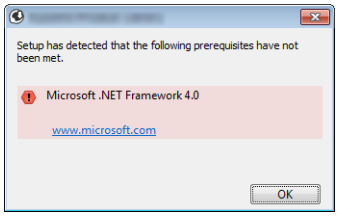
2 Click **View License Agreement** and read the License Agreement.

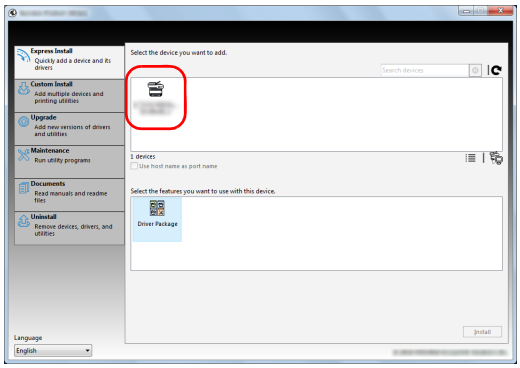
Click **Accept**.



3 Select **Express Install** tab.

Note To install Status Monitor, it is necessary to install Microsoft .NET Framework 4.0 beforehand.

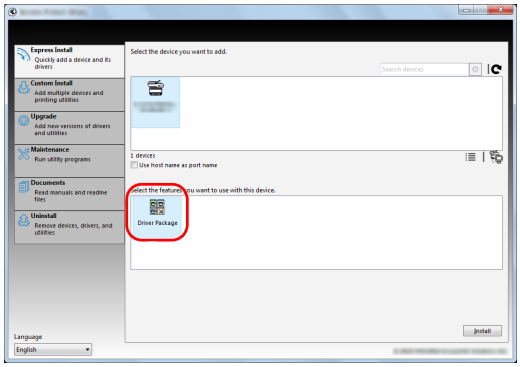




4 Select the device to be installed.

You can also select **Use host name for port name** and set to use the host name of the standard TCP/IP port. (A USB connection cannot be used.)

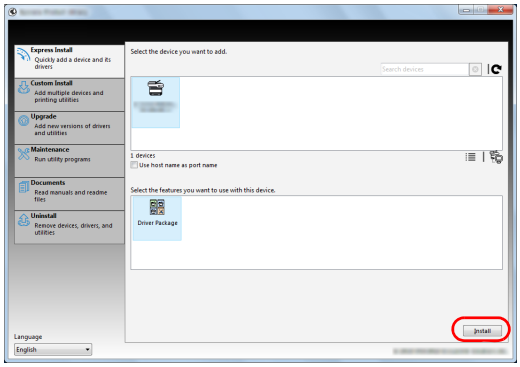
Note The machine cannot be detected unless it is on. If the computer fails to detect the machine, verify that it is connected to the computer via a network or USB cable and that it is turned on and click (Reload).



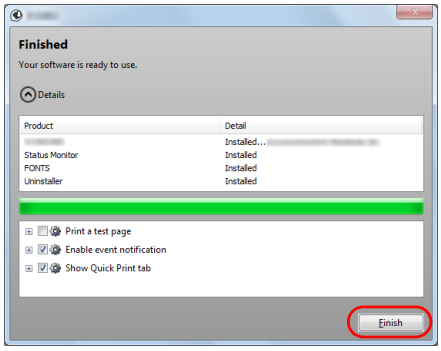
5 Select the package to be installed.

Packages include the following software:

- Driver Package
  Printing System Driver, Status Monitor, Fonts



6 Click **Install**.



7 Finish the installation.

When **Your software is ready to use** appears, you can use the software. To print a test page, click the **Print a test page** checkbox and select the machine.

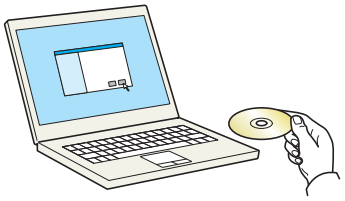
Click **Finish** to exit the wizard.

Note When you have selected **Device settings** in Windows XP, the dialog box for device setting will appear after **Finish** is clicked. Configure the settings for options installed on the machine. Device settings can be configured after the installation is completed. For details, refer to the Device Settings in the *Printing System Driver User Guide* on the DVD-ROM.

If a system restart message appears, restart the computer by following the screen prompts. This completes the printer driver installation procedure.

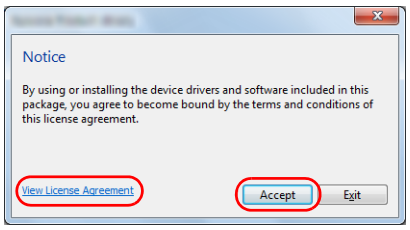
Custom Install

The following procedure is an example for installing the software in Windows 7 using **Custom Install**.



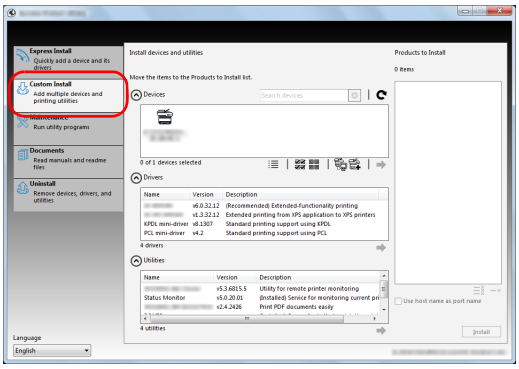
1 Insert the DVD-ROM.

Note Installation on Windows must be done by a user logged on with administrator privileges.
If the **Welcome to the Found New Hardware Wizard** dialog box displays, select **Cancel**.
If the autorun screen is displayed, click **Run setup.exe**.
If the user account management window appears, click **Yes** (**Allow**).

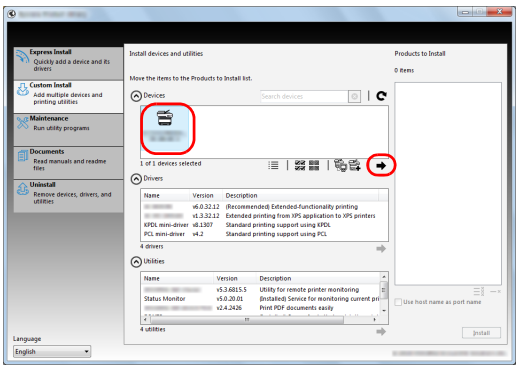

Notice
By using or installing the device drivers and software included in this package, you agree to become bound by the terms and conditions of this license agreement.
View License Agreement
Accept
Exit

2 Click **View License Agreement** and read the License Agreement.

Click **Accept**.



3 Select **Custom Install** tab.



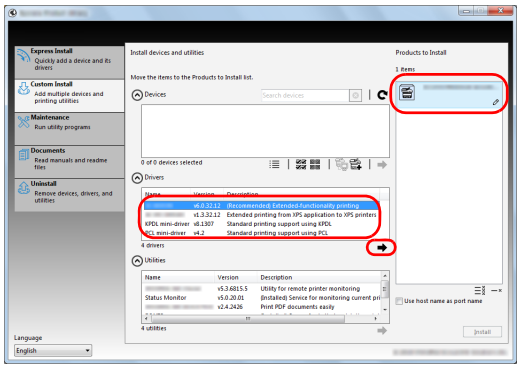
4 Select the device to be installed, and click the arrow button to move it to the **Products to Install** list.

The following buttons are available.

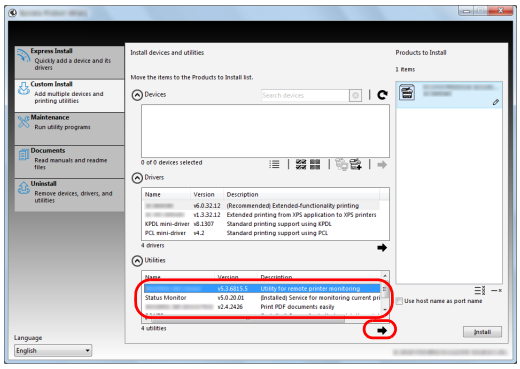
: This button is used to switch the display between icon and text display.

: This button is used to select multiple items.

: If the target device is not displayed, press this button to directly select the device to be used.

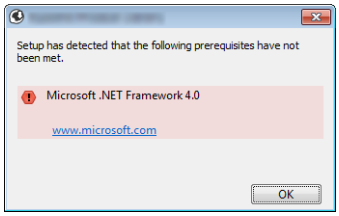


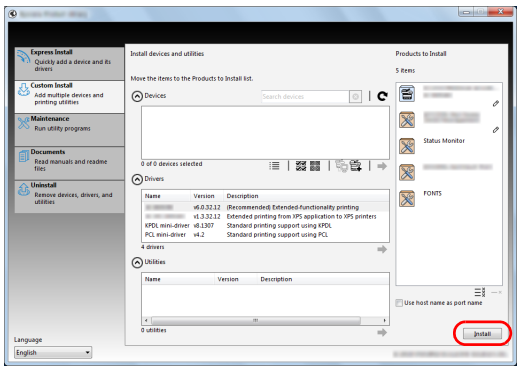
5 Select the device to be installed and driver to be installed, and then click the arrow button to move it to the **Products to Install** list.



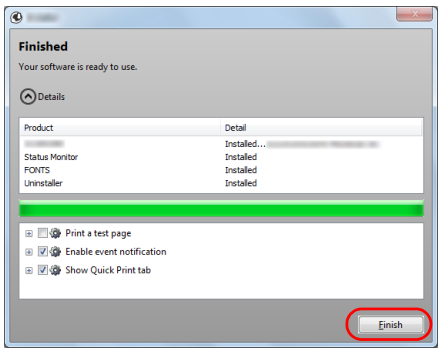
6 Select the utility to be installed, and then click the arrow button to move it to the **Products to Install** list.

Note To install Status Monitor, it is necessary to install Microsoft .NET Framework 4.0 beforehand.





7 Click **Install**.



8 Finish the installation.

When **Your software is ready to use** appears, you can use the software. To print a test page, click the **Print a test page** checkbox and select the machine.

Click **Finish** to exit the wizard.

Note When you have selected **Device settings** in Windows XP, the dialog box for device setting will appear after **Finish** is clicked. Configure the settings for options installed on the machine. Device settings can be configured after the installation is completed. For details, refer to the Device Settings in the *Printing System Driver User Guide* on the DVD-ROM.

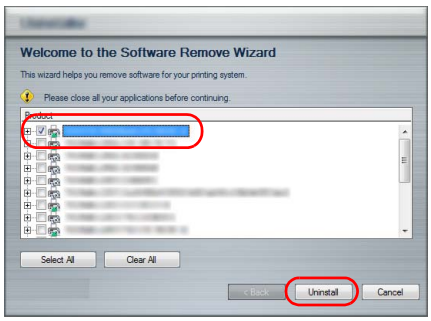
If a system restart message appears, restart the computer by following the screen prompts. This completes the printer driver installation procedure.

Uninstalling the Software

Perform the following procedure to delete the Software from your computer.

Note Uninstallation on Windows must be done by a user logged on with administrator privileges.

1 Click **Start** button on the Windows and then select **All Programs**, (name of offer company), and **Uninstall Product Library** to display the Uninstall Wizard.


Welcome to the Software Remove Wizard
This wizard helps you remove software for your printing system.
Please close all your applications before continuing.
Select All
Clear All
Uninstall
Cancel

2 Place a check in the check box of the software to be deleted.

Click **Uninstall**.

3 If a system restart message appears, restart the computer by following the screen prompts. This completes the software uninstallation procedure.

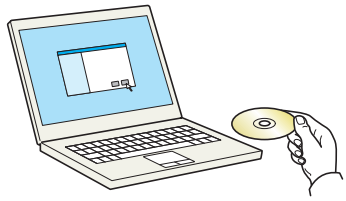
Note The software can also be uninstalled using the Product Library.
In the Product Library installation screen, click **Uninstall**, and follow the on-screen instructions to uninstall the software.

Installing Printer Driver in Macintosh

The machine's printer functionality can be used by a Macintosh computer.

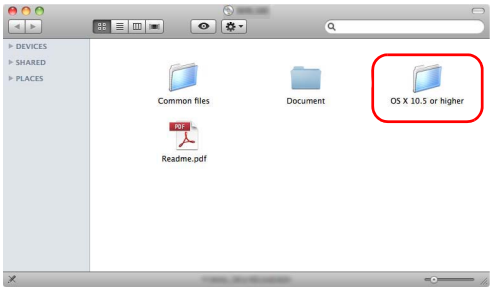
The following is an explanation for installation in MAC OSX 10.7.

Note Installation on MAC OS must be done by a user logged on with administrator privileges.
When printing from a Macintosh computer, set the machine's emulation to **KPDL** or **KPDL(Auto)**. For details, refer to *Emulation Set. (Setting the emulation) on page 4-57.*
If connecting by Bonjour, enable Bonjour in the machine's network settings. For details, refer to *Bonjour (Bonjour setting) on page 4-68.*
In the Authenticate screen, enter the name and password used to log in to the operating system.

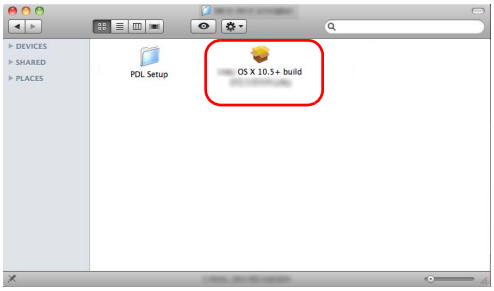


1 Insert the DVD-ROM.

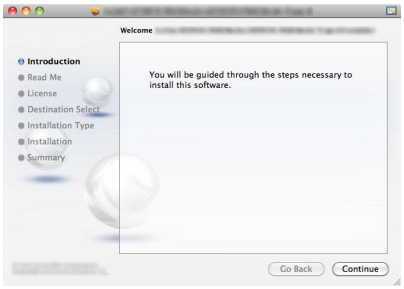
2 Double-click the **GEN_LIB** icon.



3 Double-click **OS X 10.5 or higher** .



4 Double-click (Brand Name) **OS X 10.5+**.



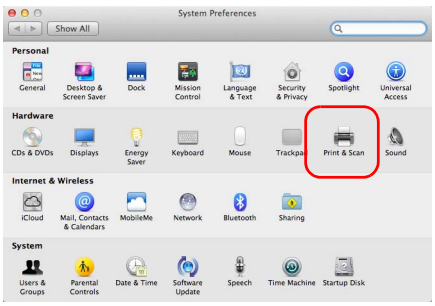
5 The printer driver installation program starts up.

6 Install the printer driver as directed by the instructions in the installation software.

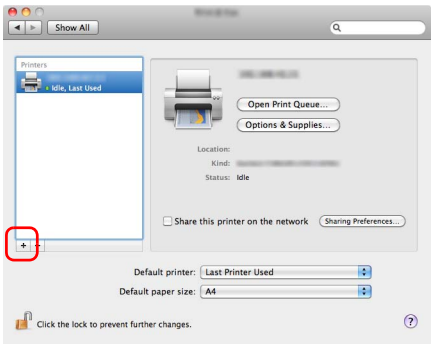
This completes the printer driver installation.

If a USB connection is used, the machine is automatically recognized and connected.

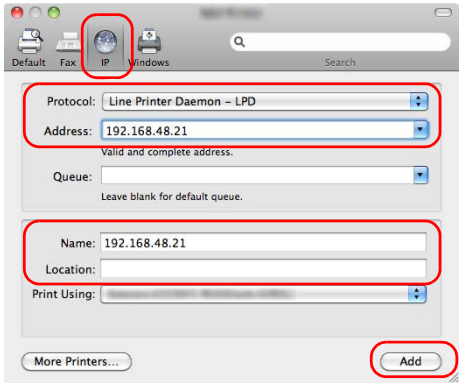
If an IP connection is used, the settings below are required.



7 Open System Preferences and click **Print & Scan**.



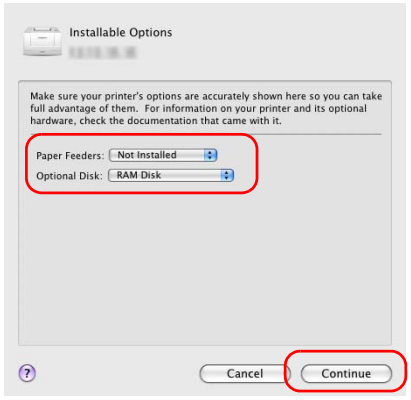
8 Click the plus symbol (**+**) to add the installed printer driver.



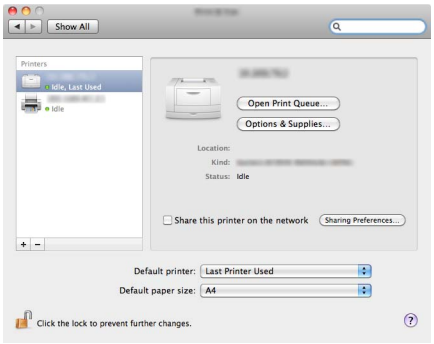
9 Click the IP icon for an IP connection and then enter the IP address and printer name.

The number entered in **Address** will automatically appear in **Name**. Change if needed.

Note When using a Bonjour connection, select **Default** and click the item that appears in **Printer Name**. The driver with the same name as the machine automatically appears in **Driver**.


Installable Options
Make sure your printer's options are accurately shown here so you can take full advantage of them. For information on your printer and its optional hardware, check the documentation that came with it.
Paper Feeders: Not Installed
Optional Disk: RAM Disk
Cancel
Continue

10 Select the options available for the machine and click **Continue**.



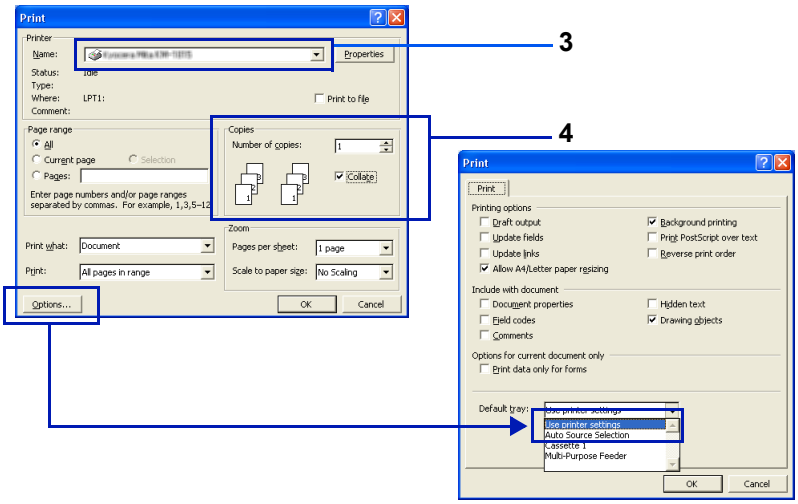
11 The selected printer is added.

Printing from Application Software

The steps required to print a document created with an application are explained below. You can select the printing Paper Size and Output Destination.

1. Load the paper required into the paper cassette.
2. From the application File menu, select **Print**. The Print dialog box displays.
3. Click the drop down list of printer names. All the printers installed in Windows are listed. Click the name of the machine.
4. Use **Number of copies** to enter the number of prints required. Up to 999 copies can be entered.

   For Microsoft Word, we recommend that you click **Options** and specify **Use printer settings** for the **Default tray**.



5. To start printing, click **OK**.

Note For information on how to use the printer driver software, refer to *Printing System Driver User Guide.*

Printing by AirPrint

AirPrint is a printing function that is included standard in iOS 4.2 and later products, and Mac OS X 10.7 and later products.

This function enables you to connect and print to any AirPrint compatible device without installing a printer driver.

To allow the machine to be found when printing by AirPrint, you can set machine location information in Embedded Web Server RX.

For details, refer to the *Embedded Web Server RX User Guide*.

Status Monitor

The Status Monitor monitors the printer status and provides an ongoing reporting function.

Note When you activate Status Monitor, check the status below.

- Printing System Driver is Installed.
- Either `Enhanced WSD` or `EnhancedWSD(SSL)` are set to `On` in *Security (Security function setting) on page 4-98*.

Accessing the Status Monitor

The Status Monitor also starts up when printing is started.

Exiting the Status Monitor

Use either of the methods listed below to exit the Status Monitor.

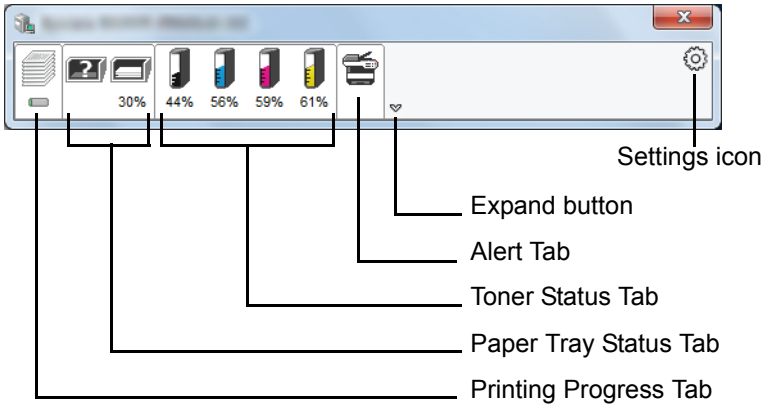
- Exit manually:
  Click the settings icon and select Exit in the menu to exit the Status Monitor.
- Exit automatically:
  The Status Monitor automatically shuts down after 7 minutes if it is not being used.

Status Monitor Display

The display of the Status Monitor is as follows.

Quick View State

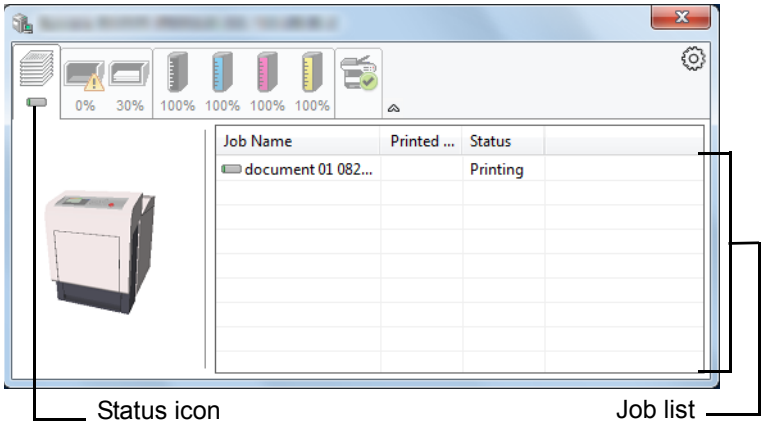
The status of the printer is displayed using icons. Detailed information is displayed when the Expand button is clicked.



Detailed information is displayed by clicking on each icon tab.

Printing Progress Tab

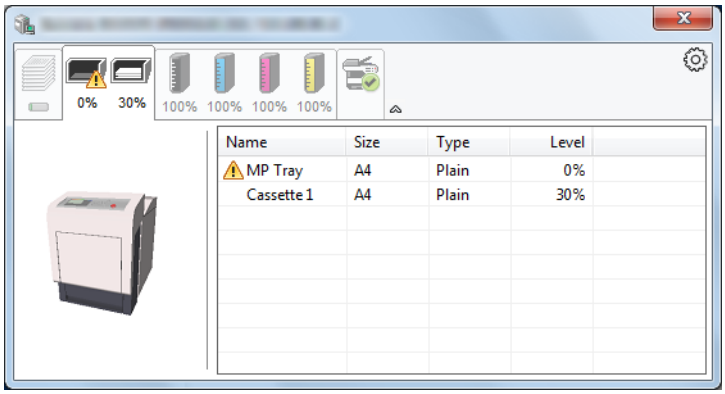
The status of the print jobs is displayed.



Select a job on the job list and it can be canceled using the menu displayed with a right-click.

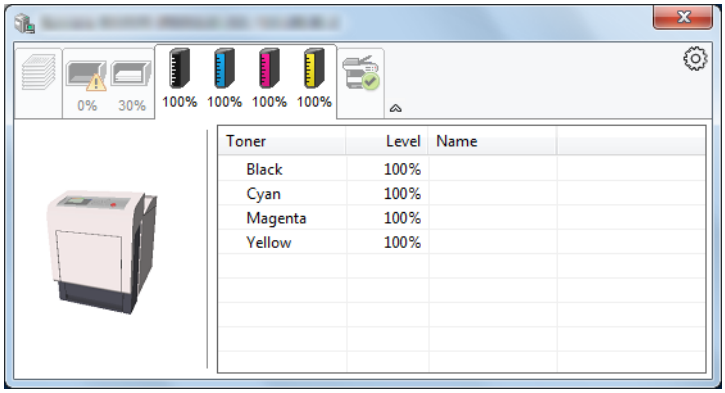
Paper Tray Status Tab

Information is displayed about the paper in the printer and about the amount of paper remaining.



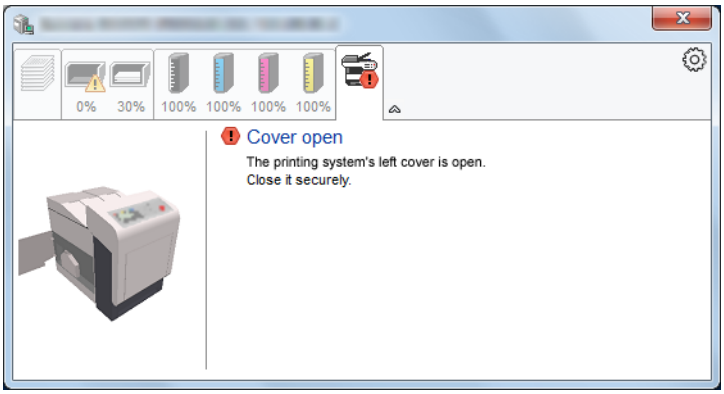
Toner Status Tab

The amount of toner remaining is displayed.



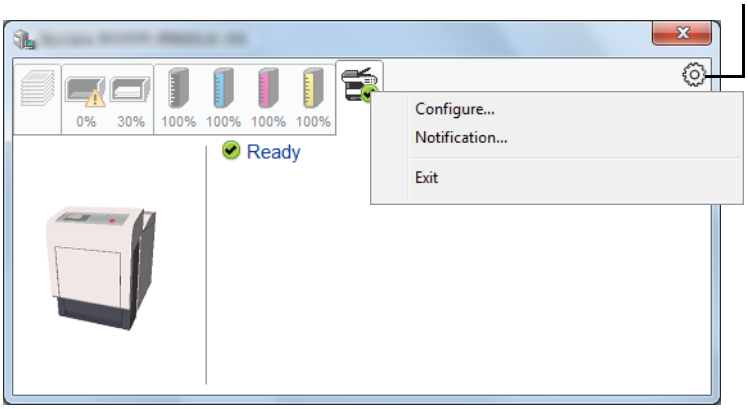
Alert Tab

If an error occurs, a notice is displayed using a 3D image and a message.



Status Monitor Context Menu

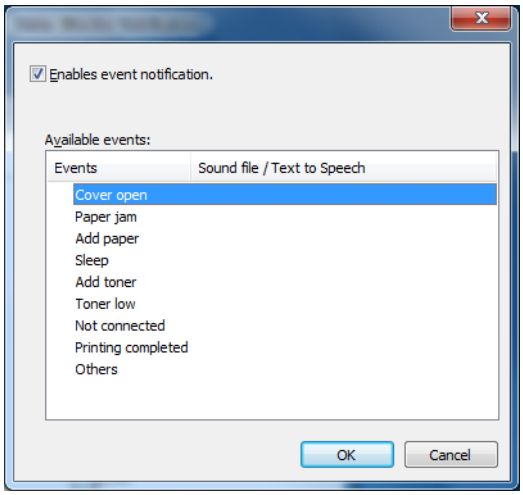
The following menu is displayed when the settings icon is clicked.



- **Configure...**
  If the printer is connected to a TCP/IP network and has its own IP address, use a web browser to access the Embedded Web Server RX to modify or confirm the network settings. For more information, refer to the *Embedded Web Server RX User Guide*.
  This menu is not displayed when using USB connection.
- **Notification…**
  This sets the display of the Status Monitor. For details, refer to *Status Monitor Notification Settings on page 2-25*.
- **Exit**
  Exits the Status Monitor.

Status Monitor Notification Settings

The Status Monitor settings and event list details are displayed.



Select whether notification is performed when an error in the event list occurs.

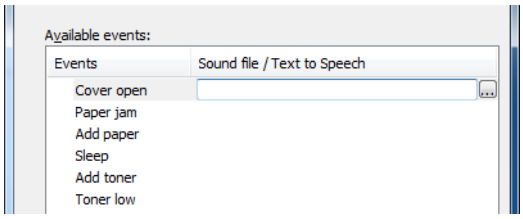
1. Select **Enable event notification**.

   If this setting is set to Off, then the Status Monitor will not start up even when printing is executed.

2. Select an event to use with the text to speech function in **Available events**.

3. Click **Sound file / Text to Speech** column.

   Click the browse (...) button to notify the event by sound file.



Note The available file format is WAV.

When customizing the message texts to read on the screen aloud, enter the texts in the text box.

Energy Saver Function

Low Power Mode

When the set time (factory setting is 1 minute) elapses after the printer is last used, the printer automatically enters low power mode. The message display backlight and lights turn off and power consumption is reduced. This status is referred to as Low Power Mode.

The amount of time of no activity that must pass before Low Power Mode is activated may be lengthened. For more information refer to *Low Power Timer (Low Power Mode timer timeout time) on page 4-91*.

If print data is received during Low Power Mode, the message display lights up and printing starts.

To resume, press **[OK]**. The printer will be ready to operate within 12 seconds.

Note that ambient environmental conditions, such as ventilation, may cause the machine to respond more slowly.

Sleep

For Europe

When the set time (factory setting is 15 minutes) elapses after the printer is last used, the printer automatically enters sleep mode. The message display backlight and lights turn off to minimize power consumption. This status is referred to as Sleep.

To use the printer, press **[OK]**. The printer will be ready to operate within 38 seconds.

For more information about configuring settings, refer to *Sleep Timer (Sleep timer timeout time) on page 4-94*.

Except for Europe

When the set time (factory setting is 15 minutes) elapses after the printer is last used, the printer automatically enters sleep mode. The message display backlight and lights turn off to minimize power consumption. This status is referred to as Sleep.

For more information about configuring settings, refer to *Sleep Timer (Sleep timer timeout time) on page 4-94*.

There are two sleep modes: Quick Recovery and Energy Saver. The default setting is Energy Saver mode.

Quick Recovery Mode

The recovery from the sleep mode is faster than when using Energy Saver mode.

The message display goes off when sleep mode is entered and the Ready indicator flashes.

The machine recovers quickly when **[OK]** is pressed. The machine also automatically recovers and prints when a job is detected.

If print data is received during Sleep, the print job is performed while the message display remains unlit.

To use the printer, press **[OK]**.

Note that ambient environmental conditions, such as ventilation, may cause the machine to respond more slowly.

For more information about configuring settings, refer to *Sleep Timer (Sleep timer timeout time) on page 4-94*.

Energy Saver Mode

This mode reduces power consumption even more than quick recovery mode, and allows Sleep mode to be set separately for each function.

To use the printer, press **[OK]**. The printer will be ready to operate within 38 seconds.

For more information on Energy Saver settings, refer to *Sleep Level Set. (Sleep level setting) on page 4-92*.

Note If the Low Power Timer is equal to the Sleep Timer, a Sleep mode is preceded.

3 Handling Paper

This chapter contains explanations on the following topics:

General Guidelines 3-2
Selecting the Right Paper 3-4
Special Paper 3-7
Paper Type 3-13
Loading Paper 3-14

General Guidelines

The machine is designed to print on standard copier paper (the type used in ordinary dry copier machines), but it can also accept a variety of other types of paper within the limits specified below.

Note The manufacturer assumes no liability for problems that occur when paper not satisfying these requirements is used.

Selection of the right paper is important. Using the wrong paper can result in paper jams, curling, poor print quality, and paper waste, and in extreme cases can damage the machine. The guidelines given below will increase the productivity of your office by ensuring efficient, trouble-free printing and reducing wear and tear on the machine.

Paper Availability

Most types of paper are compatible with a variety of machines. Paper intended for xerographic copiers can also be used with the machine.

There are three general grades of paper: *economy*, *standard*, and *premium*. The most significant difference between grades is the ease with which they pass through the machine. This is affected by the *smoothness*, *size*, and *moisture content* of the paper, and the way in which the paper is cut. The higher the grade of paper you use, the less risk there will be of paper jams and other problems, and the higher the level of quality your printed output will reflect.

Differences between paper from different suppliers can also affect the machine's performance. A high-quality printer cannot produce high-quality results when the wrong paper is used. Low-priced paper is not economical in the long run if it causes printing problems.

The recommended basis weight is:

- Cassette: 60 to 120 g/m^2
- MP tray: 60 to 220 g/m^2
- PF-500: 60 to 120 g/m^2
- PF-510: 60 to 220 g/m^2

Paper Specifications

The following table summarizes the basic paper specifications. Details are given on the following pages.

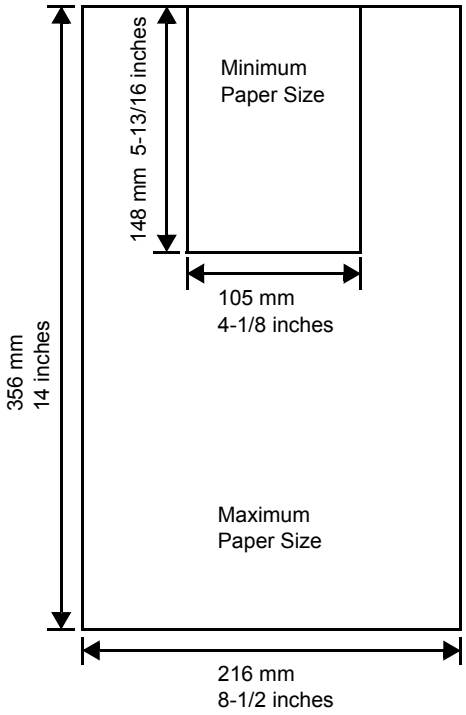
Item	Specification
Weight	Cassette, PF-500: 60 to 120 g/m² (16 to 32 lb/ream) MP Tray, PF-510: 60 to 220 g/m² (16 to 59 lb/ream)
Thickness	0.086 to 0.110 mm (3.4 to 4.3 mils)
Dimensions	Refer to *Paper Sizes on page 3-4*
Dimensional accuracy	±0.7 mm (±0.0276 inches)

Item	Specification
Squareness of corners	90° ±0.2°
Moisture content	4 % to 6 %
Direction of grain	Long grain
Pulp content	80 % or more

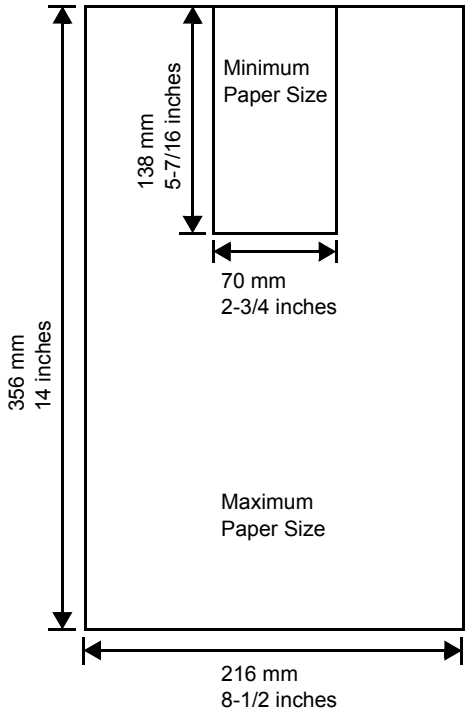
Minimum and Maximum Paper Sizes

The minimum and maximum paper sizes are as follows. For non standard paper such as transparency, labels, vellum, cardstock, envelope, coated and thick, the MP (Multi-Purpose) tray must be used. For information on how to set paper sizes, refer to *Media Type Set. (Paper type settings) on page 4-48*.

Paper Cassette



MP Tray



Recommended Paper

The following products are recommended for use with the printer for optimum performance.

Size	Product	Weight
Letter, Legal	Hammermill LASER PRINT	90 g/m² (24 lb)
A4	NEUSIEDLER COLOR COPY	90 g/m²

Selecting the Right Paper

This section describes the guidelines for selecting paper.

Condition

Avoid using paper that is bent at the edges, curled, dirty, torn, embossed, or contaminated with lint, clay, or paper shreds.

Use of paper in these conditions can lead to illegible printing and paper jams, and can shorten the life of the machine. In particular, avoid using paper with a surface coating or other surface treatment. Paper should have as smooth and even a surface as possible.

Composition

Do not use paper that has been coated or surface-treated and contains plastic or carbon. The heat of fusing can cause such paper to give off harmful fumes.

Bond paper should contain at least 80 % pulp. Not more than 20 % of the total paper content should consist of cotton or other fibers.

Paper Sizes

Cassettes and the *MP tray* are available for the paper sizes listed in the table below. For details, including the paper sizes for the paper feeder (Optional paper feeder PF-500, PF-510) refer to *Cassette (1 to 5) Size (Setting the cassette paper size) on page 4-43*.
The dimensional tolerances are ±0.7 mm (±0.0276 inches) for the length and width. The angle at the corners must be 90° ±0.2°.

MP Tray Only	Size	Cassette or MP Tray	Size
Env. Monarch	3-7/8 × 7-1/2 inches	Legal	8-1/2 × 14 inches
Envelope #10	4-1/8 × 9-1/2 inches	Letter	8-1/2 × 11 inches
Envelope #9	3-7/8 × 8-7/8 inches	ISO A4	210 × 297 mm
Envelope #6	3-5/8 × 6-1/2 inches	ISO A5	148 × 210 mm
Envelope DL	110 × 220 mm	ISO A6	105 × 148 mm
JIS B6	128 × 182 mm	Envelope C5	162 × 229 mm
Hagaki	100 × 148 mm	ISO B5	176 × 250 mm
OufukuHagaki	148 × 200 mm	JIS B5	182 × 257 mm
Youkei 2	114 × 162 mm	Statement	5-1/2 × 8-1/2 inches
Youkei 4	105 × 235 mm	Executive	7-1/4 × 10-1/2 inches
		Oficio II	8-1/2 × 13 inches
		Folio	210 × 330 mm
		216 × 340 mm	216 × 340 mm
		16 kai	197 × 273 mm
Custom	Cassette: 105 to 216 mm × 148 to 356 mm (4-1/8 to 8-1/2 inches × 5-13/16 to 14 inches) MP Tray: 70 to 216 mm × 138 to 356 mm (2-3/4 to 8-1/2 inches × 5-7/16 to 14 inches)		

Smoothness

The paper should have a smooth, uncoated surface. Paper with a rough or sandy surface can cause voids in the printed output. Paper that is too smooth can cause multiple feeding and fogging problems. (Fogging is a gray background effect.)

Basis Weight

Basis weight is the weight of paper expressed in grams per square meter (g/m²). Paper that is too heavy or too light may cause feed errors or paper jams as well as premature wear of the product. Uneven weight of paper, namely uneven paper thickness may cause multiple-sheet feeding or print quality problems such as blurring because of poor toner fusing.

Paper Weight Equivalence Table

The paper weight is listed in pounds (lb) and metric grams per square meter (g/m²). The shaded part indicates the standard weight.

U. S. Bond Weight (lb)	Europe Metric Weight (g/m²)
16	60
17	64
20	75
21	80
22	81
24	90
27	100
28	105
32	120
34	128
36	135
39	148
42	157
43	163
47	176
53	199

Thickness

The paper used with the machine should be neither extremely thick nor extremely thin. If you are having problems with paper jams, multiple feeds, and faint printing, the paper you are using may be too thin. If you are having problems with paper jams and blurred printing the paper may be too thick.

Moisture Content

Moisture content is defined as the percent ratio of moisture to the dry mass of the paper. Moisture can affect the paper's appearance, feed ability, curl, electrostatic properties, and toner fusing characteristics.

The moisture content of the paper varies with the relative humidity in the room. When the relative humidity is high and the paper absorbs moisture, the paper edges expand, becoming wavy in appearance. When the relative humidity is low and the paper loses moisture, the edges shrink and tighten, and print contrast may suffer.

Wavy or tight edges can cause jams and alignment anomalies. The moisture content of the paper should be 4 to 6 %.

To ensure correct moisture content, it is important to store the paper in a controlled environment. Some tips on moisture control are:

- Store paper in a cool, dry location.
- Keep the paper in its wrapping as long as possible. Re-wrap paper that is not in use.
- Store paper in its original carton. Place a pallet etc. under the carton to separate it from the floor.
- After removing paper from storage, let it stand in the same room as the machine for 48 hours before use.
- Avoid leaving paper where it is exposed to heat, sunlight, or damp.

Note When using coated paper, be aware that the sheets will stick together in a very humid environment.

Paper Grain

When paper is manufactured, it is cut into sheets with the grain running parallel to the length (long grain) or parallel to the width (short grain). Short grain paper can cause feeding problems in the machine. All paper used in the machine should be long grain.

Other Paper Properties

Porosity: Indicates the density of paper fiber.

Stiffness: Limp paper may buckle in the machine, resulting in paper jams.

Curl: Most paper naturally tends to curl one way if left unpacked.

Electrostatic discharge: During the printing process the paper is electrostatically charged to attract the toner. The paper must be able to release this charge so that printed sheets do not cling together in the *Output Tray*.

Whiteness: The contrast of the printed page depends on the whiteness of the paper. Whiter paper provides a sharper, brighter appearance.

Quality control: Uneven sheet size, corners that are not square, ragged edges, welded (uncut) sheets, and crushed edges and corners can cause the machine to malfunction in various ways. A quality paper supplier should take considerable care to ensure that these problems do not occur.

Packaging: Paper should be packed in a sturdy carton to protect it from damage during transport. Quality paper obtained from a reputable supplier is usually correctly packaged.

Note You might see the printer emitting steam in the area around the top tray if you use damp paper, but it is safe to continue printing.

Special Paper

The following types of special paper can be used:

Paper Type to be Used	Paper Type to be Selected
Overhead projector transparencies	TRANSPARENCY
Rough paper	ROUGH
Thin paper (60 to 64 g/m²)	VELLUM
Label	LABELS
Recycled paper	RECYCLED
Preprinted paper	PREPRINTED
Bond paper	BOND
Postcards	CARDSTOCK
Colored paper	COLOR
Prepunched paper	PREPUNCHED
Letterhead	LETTERHEAD
Envelopes	ENVELOPE
Coated paper	COATED
Thick paper (120 to 220 g/m²)	THICK
High-quality paper	HIGH QUALITY
Custom	CUSTOM 1~8

Use paper that is sold specifically for use with copiers or printers (heat-fusing type). When using transparencies, labels, thin paper, envelopes, postcards, or thick paper, feed the paper from the *MP tray*. For details, refer to *Paper Settings on page 4-41*.

Since the composition and quality of special paper vary considerably, special paper is more likely than white bond paper to give trouble during printing. No liability will be assumed if moisture and so forth given off during printing on special paper causes harm to the machine or operator.

Note Before purchasing any type of special paper, test a sample on the machine and check that printing quality is satisfactory.

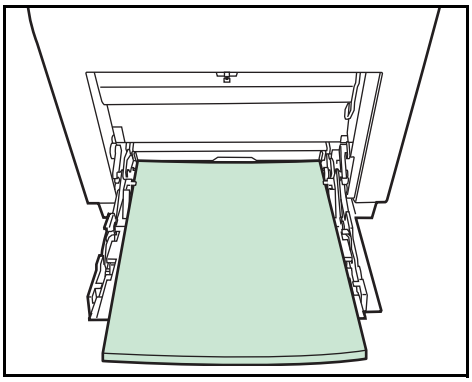
Transparency

Transparencies must be able to withstand the heat of fusing during the printing process. The recommended transparency product is 3M CG3700 (Letter, A4).

The table below lists the specifications for transparency:

Item	Specification
Tolerance of heat	Must tolerate at least 190 °C (374 °F)
Thickness	0.100 to 0.110 mm (3.9 to 4.3 mils)
Material	Polyester
Dimensional accuracy	±0.7 mm (±0.0276 inches)
Squareness of corners	90° ±0.2°

To prevent printing problems, feed transparencies into the printer one sheet at a time from the *MP tray*. Always load the transparencies vertically (with the long edge towards the printer).



If the transparencies have rough edges on the back, it may cause a paper jam. Remove the rough edges, reverse the sides or feed the sheet from the opposite edge.

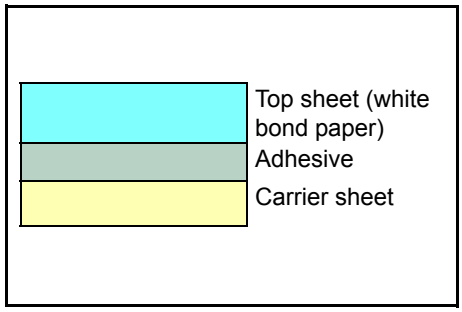
When unloading transparencies (e.g., for clearing jams), hold them carefully by the edges to avoid leaving fingerprints on them.

Labels

Labels must be fed from the *MP tray* or optional paper feeder PF-510.

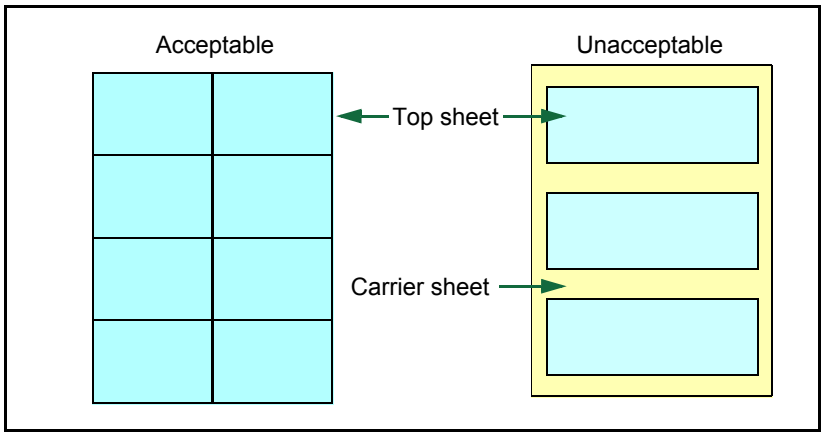
The basic rule for printing on adhesive labels is that the adhesive must never come into contact with any part of the machine. Adhesive paper sticking to the drum or rollers will damage the machine.

Label paper has a structure comprising of three layers, as shown in the diagram. The top sheet is printed on. The adhesive layer consists of pressure-sensitive adhesives. The carrier sheet (also called the linear or backing sheet) holds the labels until used. Due to the complexity of its composition, adhesive-backed label paper is particularly likely to give printing problems.



Adhesive label paper must be entirely covered by its top sheet, with no spaces between the individual labels. Labels with spaces in between are liable to peel off, causing serious paper jam problems.

Some label paper is manufactured with an extra margin of top sheet around the edge. Do not remove the extra top sheet from the carrier sheet until after printing is finished.



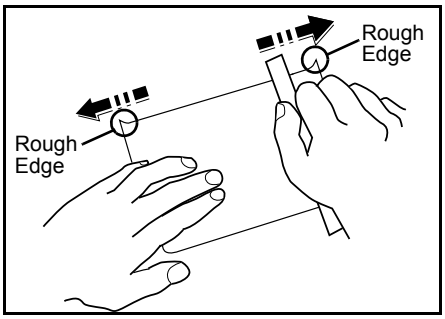
The table below lists the specifications for adhesive label paper.

Item	Specification
Weight of top sheet	44 to 74 g/m² (12 to 20 lb/ream)
Composite weight	104 to 151 g/m² (28 to 40 lb/ream)
Thickness of top sheet	0.086 to 0.107 mm (3.9 to 4.2 mils)
Composite thickness	0.115 to 0.145 mm (4.5 to 5.7 mils)
Moisture content	4 to 6 % (composite)

Postcards

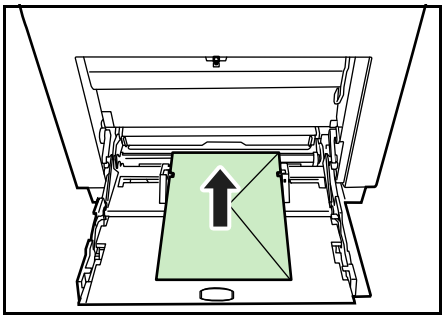
Fan the stack of postcards and align the edges before loading them in the MP tray. Make sure the postcards you are going to set are not curled. Feeding curled postcards may cause paper jams.

Some postcards have rough edges on the back (those are created when the paper is cut). In this case, put the postcards on a flat place and rub the edges with, for example, a ruler to smooth them.



Envelopes

Envelopes should be fed from the MP tray, with the print-side down. If you use envelopes quite often, we recommend to use optional paper feeder PF-510.



Since the composition of an envelope is more complex than that of ordinary paper, it is not always possible to ensure consistent printing quality over the entire envelope surface.

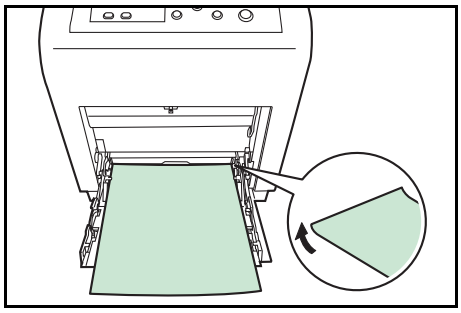
Normally, envelopes have a diagonal grain direction. Refer to *Paper Grain on page 3-6*. This direction can easily cause wrinkles and creases when envelopes pass through the printer. Before purchasing envelopes, make a test print to check whether the printer accepts the envelope.

- Do not use envelopes that have an encapsulated liquid adhesive.
- Avoid a long printing session for envelopes only. Extended envelope printing can cause premature printer wear.
- If jams occur, try setting a lesser number of envelopes on the MP tray.
- To avoid jams caused by curled envelopes, stack no more than 10 printed envelopes on the top tray.

Thick Paper

Fan the stack of paper and align the edges before loading them in the MP tray. Some types of paper have rough edges on the back (those are created when the paper is cut). In this case, put the paper on a flat place and rub the edges once or twice with, for example, a ruler to smooth them. Feeding rough edged paper may cause paper jams.

Note If the paper jams even after you smooth it out, load the paper in the *MP tray* with the leading edge raised up a few millimeters as shown in the illustration.



Note If you use thick paper quite often, we recommend to use optional paper feeder PF-510.

Colored Paper

Colored paper should satisfy the same conditions as white bond paper, refer to *Paper Specifications on page 3-2*. In addition, the pigments used in the paper must be able to withstand the heat of fusing during the printing process (up to 200 °C or 392 °F).

Preprinted Paper

Preprinted paper should satisfy the same conditions as white bond paper, refer to *Paper Specifications on page 3-2*. The preprinted ink must be able to withstand the heat of fusing during the printing process, and must not be affected by silicone oil. Do not use paper with any kind of surface treatment, such as the type of paper commonly used for calendars.

Recycled Paper

Select recycled paper that meets the same specifications as the white bond paper except for whiteness, refer to *Paper Specifications on page 3-2*.

Note Before purchasing recycled paper, test a sample on the machine and check that the printing quality is satisfactory.

Coated Paper

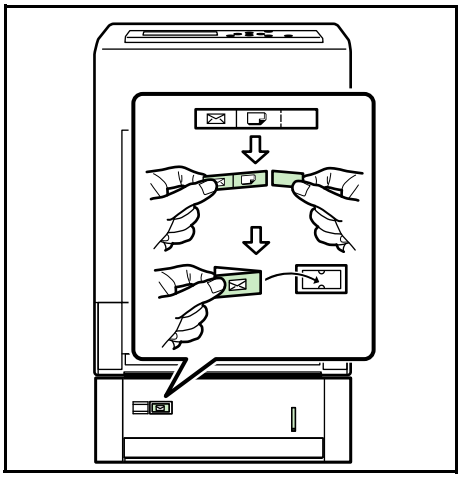
Coated paper is created by treating the surface of the base paper with a coating that provides higher printing quality than plain paper. Coated paper is used for particularly high quality printing.

The surface of high-quality or medium-quality paper is coated with special agents that improve ink coverage by making the paper surface smoother. These agents are used either to coat both sides of the paper or just one side. The coated side appears slightly glossy.

IMPORTANT When printing on coated paper in very humid environments, ensure that the paper is kept dry as moisture may cause sheets to stick together when they are fed into the printer.

Paper Type Indicators (Optional paper feeder PF-510)

If you are going to load non standard paper in the optional paper feeder PF-510, cut out the blank section of the attached paper type indicator sheet, fold the remaining sheet in half and insert it into the cassette's display folder so that the paper type symbol is displayed.



- Envelopes
- Thick paper
- Labels
- Coated paper

Paper Type

The printer is capable of printing under the optimum setting for the type of paper being used.

Setting the paper type for the paper source from the printer's operation panel will cause the printer to automatically select the paper source and print in the mode best suited to that type of paper.

A different paper type setting can be made for each paper source including the MP tray. Not only can preset paper types be selected, but it is also possible for you to define and select customized paper types. Refer to *Media Type Set. (Paper type settings) on page 4-48*. The following types of paper can be used.

Paper Type	Paper Source				
	MP Tray	Paper Cassette Optional Paper Feeder PF-500	Paper Weight	Duplex Path	Optional Paper Feeder PF-510
PLAIN	Yes	Yes	Normal 2	Yes	Yes
TRANSPARENCY	Yes	No	Extra Heavy	No	No
ROUGH	Yes	Yes	Normal 3	Yes	Yes
VELLUM	Yes	No	Light	No	No
LABELS	Yes	No	Heavy 1	No	Yes
RECYCLED	Yes	Yes	Normal 2	Yes	Yes
PREPRINTED	Yes	Yes	Normal 2	Yes	Yes
BOND	Yes	Yes	Normal 3	Yes	Yes
CARDSTOCK	Yes	No	Heavy 2	No	Yes
COLOR	Yes	Yes	Normal 2	Yes	Yes
PREPUNCHED	Yes	Yes	Normal 2	Yes	Yes
LETTERHEAD	Yes	Yes	Normal 2	Yes	Yes
ENVELOPE	Yes	No	Heavy 3	No	Yes
COATED	Yes	No	Normal 3	Yes	Yes
THICK	Yes	No	Heavy 2	No	Yes
HIGH QUALITY	Yes	Yes	Normal 3	Yes	Yes
CUSTOM 1 (to 8)†	Yes	Yes	Normal 2	Yes	Yes

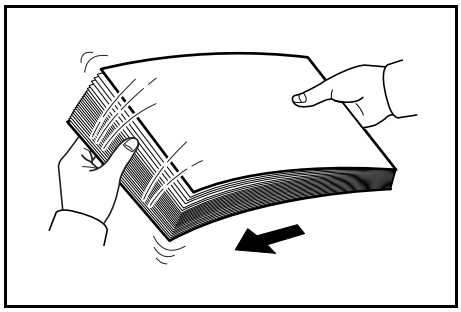
Yes: Can be stored No: Cannot be stored

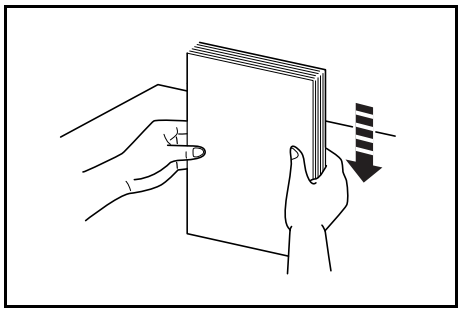
†. This is a paper type defined and registered by the user. Up to eight types of user settings may be defined. For details, refer to *Media Type Set. (Paper type settings) on page 4-48*.

Loading Paper

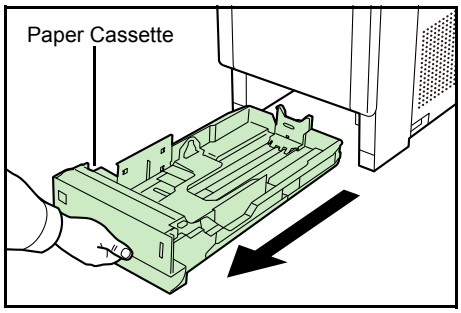
The following explains the procedure for loading paper in the cassette and the MP tray.

Loading Paper into the Cassette

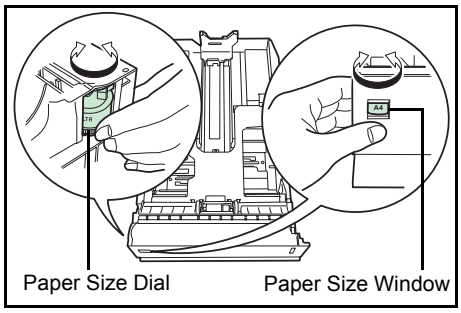




1 Fan the media (paper/transparencies), then tap it on a level surface to avoid media jams or skewed printing.

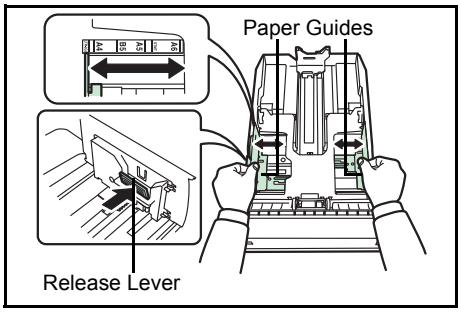


2 Pull the paper cassette all the way out of the printer.

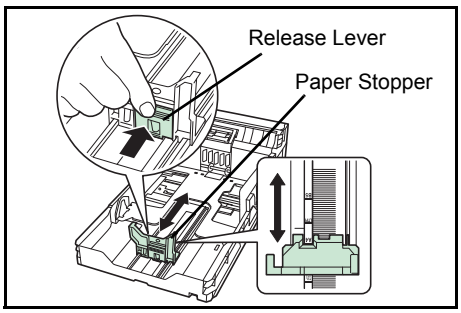


3 Turn the Paper Size Dial so that the size of the paper you are going to use appears in the Paper Size Window.

Note When the Paper Size Dial is set to **Other** the paper size must be set into the printer on the operation panel. Refer to *Cassette (1 to 5) Size (Setting the cassette paper size) on page 4-43*.

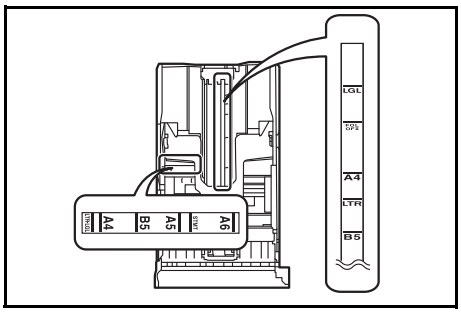


4 Pull the release lever of both side guides and slide to the desired paper size.

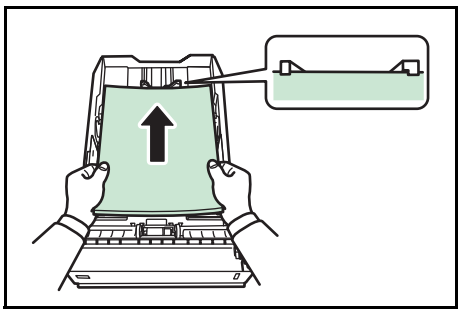


5 Pull the release lever and slide the paper stopper to the desired paper size.

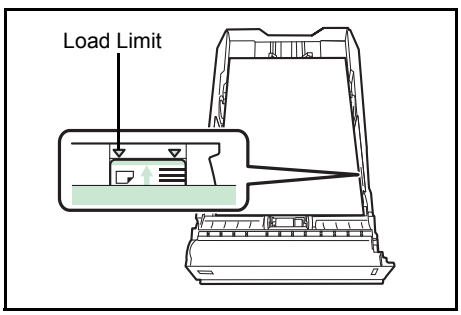
When using non-standard size paper, move the paper guides and paper stopper all the way out, insert the paper, then adjust the paper guides and paper stopper to the size of the paper. Adjust them so that they are in light contact with the paper.



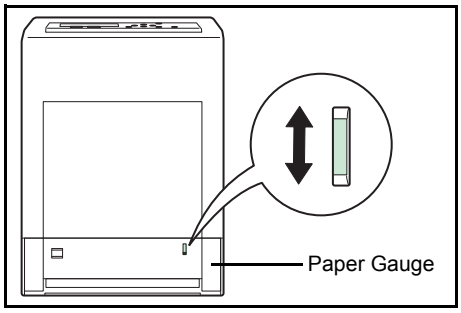
Standard paper sizes are marked on the inside of the paper cassette.



6 Slide the paper into the paper cassette.



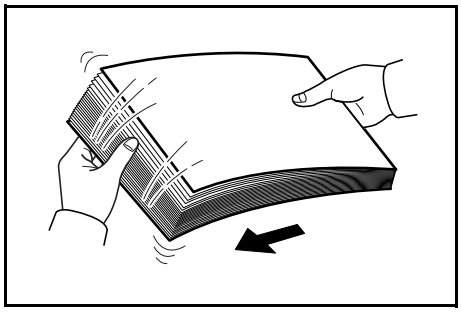
Note Do not load more paper than will fit under the load limits on the paper guides.
The paper cassette will hold approximately 500 sheets of 80 g/m² (21 lb.) paper with a thickness of 0.11 mm.



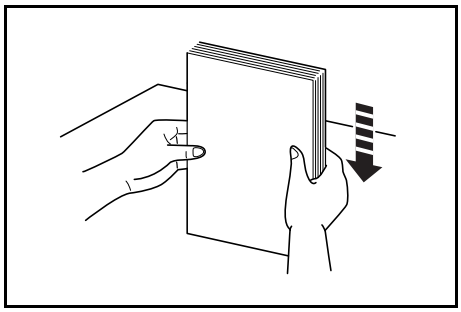
7 Insert the paper cassette into the slot in the printer. Push it straight in as far as it will go.

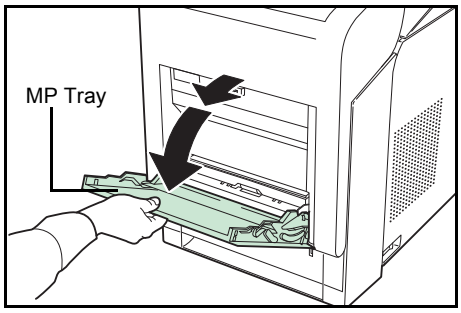
There is a paper gauge on the right side of the front of the paper cassette to indicate the remaining paper supply. When paper is exhausted, the pointer will go down to the level of ⌊⌋ (empty).

Loading Paper into the MP (Multi-Purpose) Tray

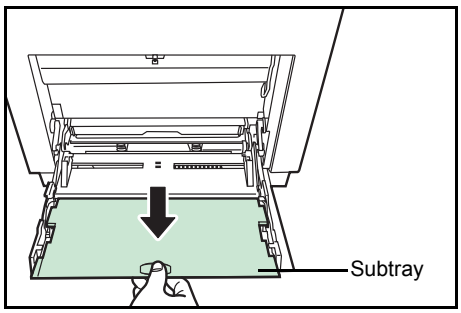


1 Fan the media (paper/transparencies), then tap it on a level surface to avoid media jams or skewed printing.

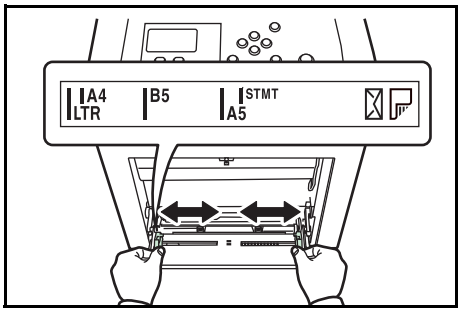




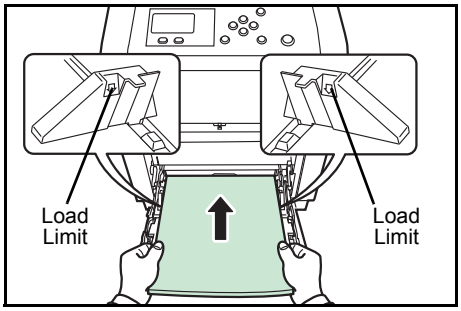
2 Press the center of the MP tray, and pull it towards you until it stops.



3 Pull the subtray toward you until it stops, making sure there are no gaps.

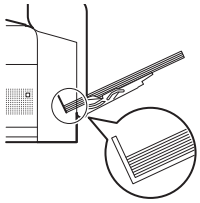
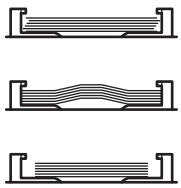
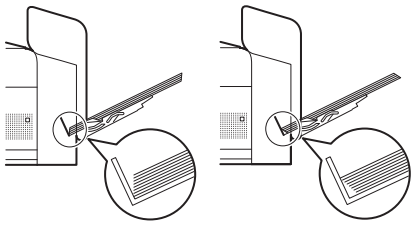


4 Adjust the position of the paper guides on the MP tray. Standard paper sizes are marked on the MP tray. For standard paper sizes, slide the guides to the position marked correspondingly.



5 Align the paper with the paper guides and insert as far as it will go.

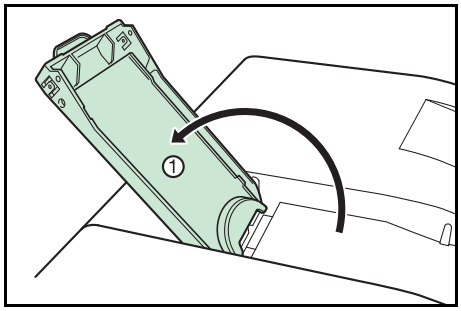
Note Do not load more paper than will fit under the load limits on the inside of the MP tray.
When printing on transparencies, feed the sheets into the printer one at a time.
If the paper is considerably curled in one direction, for example, if the paper is already printed on one side, try to roll the paper in the opposite direction to counteract the curl. Printed sheets will then come out flat.

Correct		
Incorrect		

6 Set the MP tray paper size on the printer's operation panel. Refer to *Paper Settings on page 4-41*.

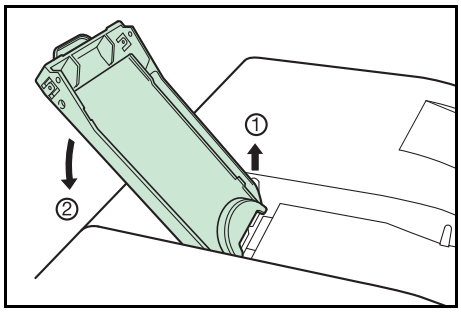
Paper stopper

Align the paper stopper to the desired paper size.



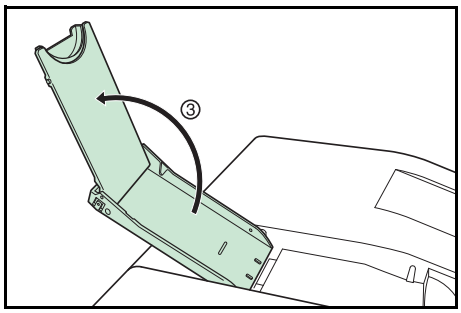
- For A4 or Letter size paper

  Move the paper stopper as far as the location of ① .

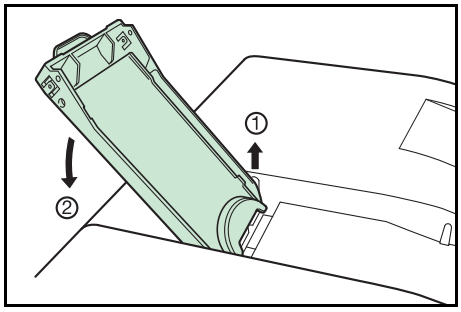


- For Legal size paper

  Face the paper stopper upward, pull up as shown at ① and move it as far as the location of ② .

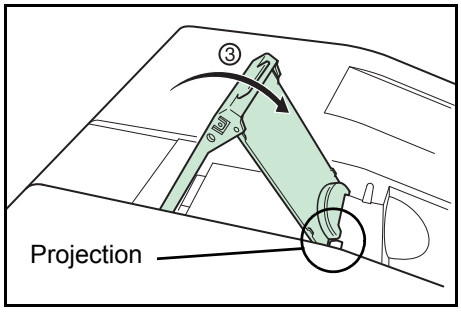


Open the stand inside the paper stopper as far as the location of ③ and lock.



- For A5 size paper

  Face the paper stopper upward, pull up as shown at ① and move it as far as the location of ② .



Open the stand inside the paper stopper, lower toward you as shown at ③ , and align the front edges of the stand at the projection on the printer.

4 Using the Operation Panel

This chapter contains explanations on the following topics:

General Information 4-2
Understanding the Operation Panel 4-3
Keys 4-6
Using the Menu Selection System 4-12
Setting a Mode Selection Menu 4-14
Report Print 4-15
USB Memory (USB memory selection) 4-20
Custom Box 4-23
Job Box 4-27
Counter (Viewing the counter value) 4-39
Paper Settings 4-41
Print Settings 4-53
Network (Network settings) 4-64
Optional Network (Optional Network settings) 4-73
Device Common (Selecting/Setting the common device) 4-78
Security (Security function setting) 4-98
Job Account.Set. (Job Account setting) 4-107
Administrator (Administrator settings) 4-116
Adjust/Maint. (Adjust/Maintenance selection/setting) 4-119

General Information

This chapter provides the information you need to configure the printer. In general you need to use the operation panel only to make default settings. You can make most changes to the printer settings using the printer driver through the application software.

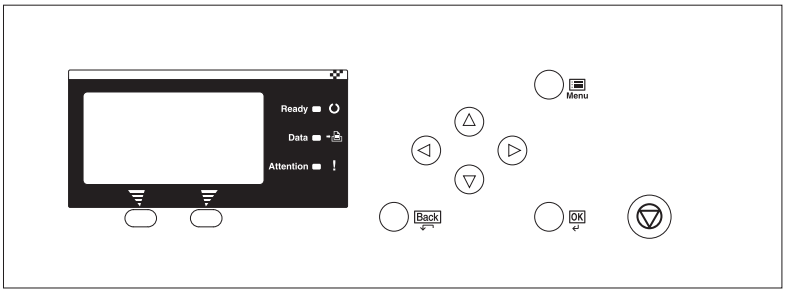
Note Changes to printer settings made using a software application override changes made using the operation panel.

You can also access the printer's various settings from a remote location, by using the control panel, the printer driver or other utilities such as the Status Monitor Utility. Other printer utilities can be installed using the DVD-ROM supplied with the printer.

The chapter describes the operation panel in detail, including its menus and the procedures for changing various printer settings.

Understanding the Operation Panel

The operation panel on the top of the printer has a 5-line by 21-character liquid crystal display (LCD), ten keys, and three indicators (LED).



Messages that appear on the display and functions of indicators and keys are explained in this chapter.

Message Display

The message display on the operation panel shows:

- Status information, the ten messages listed below which are displayed during normal operation.
- For information on error code and errors where the printer requires the operator's attention, refer to *Troubleshooting on page 6-1*.

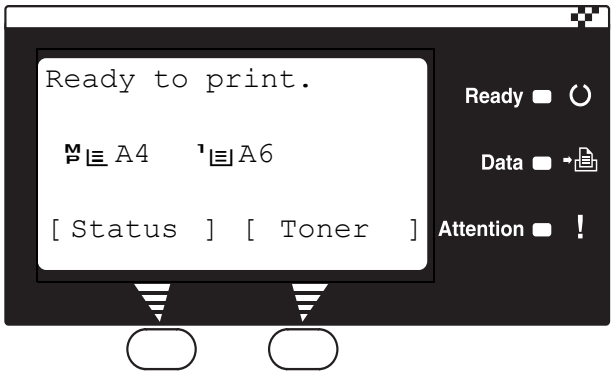
Status Information

Message	Meaning
Please wait.	The printer is warming up and is not ready. When the printer is switched on for the first time, this message will take several minutes.
Please wait. Loading paper...	This message appears when the printer is preparing to print coated paper (Coated) fed from the optional paper feeder PF-510.
Please wait. Adding toner...	Toner is currently being replenished. This message may be displayed during continuous printing of a large volume of pages which require a large amount of toner such as with photographs, etc.
Please wait. Performing Color Calibration...	The color calibration function is being performed automatically as you powered on the printer. You can also execute this function manually on the operation panel. For details, refer to *ColorCalibration on page 4-119*.
Please wait. Cleaning...	Displayed during LSU cleaning.
Please wait. Regulating the temperature...	This printer is not prepared while cooling fuser unit.
Refreshing drum. Please wait.	The drum refresh is in progress. Please wait.
Ready to print. (Ress the OK key to wakeup screen)	The printer is ready to print. It may take a short time before the message display appears after the **[OK]** key is pressed.
Processing.	The printer is receiving data to print. This is also shown when the printer is reading a USB memory, SSD or RAM disk.
Low power.	The printer is in Low Power Mode. The printer wakes from Low Power Mode whenever a print job is received. The printer then warms up and goes on-line. For details on Low Power Mode, refer to *Low Power Timer (Low Power Mode timer timeout time) on page 4-91*.
Sleeping.	The printer is in Auto Sleep. The printer wakes from Auto Sleep whenever a print job is received. The printer then warms up and goes on-line. For details on Auto Sleep, refer to *Sleep Timer (Sleep timer timeout time) on page 4-94*.
Canceling...	Jobs inside the printer are being canceled. To cancel a job, refer to *Canceling a Printing Job on page 4-6*.
Restarting... Please wait.	The printer is restarting. Please wait.

Error Codes

Refer to the *Troubleshooting on page 6-1*.

Indicators in Message Display



Ready, Data, and Attention Indicators

The following indicators light during normal operation and whenever the printer needs attention. Depending on the status of lighting, each indicator has the following meaning:

Indicator	Description
Ready	**Flashing.** Indicates an error that you can resolve. For details, refer to *Troubleshooting on page 6-1*. **On.** Indicates that the printer is ready and on-line. The printer prints the data it receives. **Off.** Indicates that the printer is off-line because printing is manually stopped or automatically stopped due to an error condition. Data can be received but will not be printed. For details, refer to *Error Messages on page 6-5* if printing is automatically stopped when an error condition has occurred.
Data	**Flashing.** Indicates that a data is being received. **On.** Indicates either that data received is being processed before printing starts, or that the SSD, USB memory or RAM disk is being accessed.
Attention !	**Flashing.** If `Please wait` is displayed, the printer is warming up. Or, the printer cannot print for some reason (e.g. there is no paper in the cassette). Check the message display and carry out the required action. For details, refer to *Error Messages on page 6-5*. **On.** The printer cannot print due to an error. Check the message display and carry out the required action. For details, refer to *Error Messages on page 6-5*.

Keys

The operation panel keys are used to configure the printer operation. Note that certain keys have a secondary function.

Cancel Key

This key is used to:

- Cancel a printing job.
- Stop the alarm sound.

Canceling a Printing Job

1. While the printer displays `Processing.`, press **[Cancel]**.

   The `Job Cancel List` appears, showing the list of current print jobs.

2. Press △ or ▽ to display the desired job and then press **[OK]**.

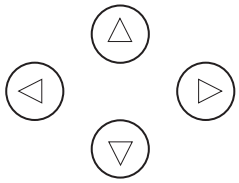
   When the `Job will be canceled. Are you sure?` message appears, press `[Yes]` (**[Left Select]**) to cancel the job or `[No]` (**[Right Select]**) to cancel this operation and continue printing.

   When you cancel a job, `Canceling...` appears on the message display and printing stops after the page currently printing has been fed out.

MENU Key

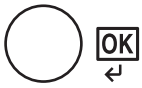
- **[MENU]** lets you enter the menu system to change the setup and printing environment of the printer.

Arrow Keys



- The four arrow keys are used in the menu system to access an item or enter numeric values.

OK Key



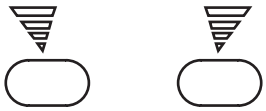
This key is used to:

- Finalize settings of numeric values and other selections.

Back Key

- Cancels the menu setting currently displayed and returns to the menu for the previous step.

Left Select Key / Right Select Key



- These keys only function when the respective key tabs are shown in the message display. Pressing the key executes the function shown in the message display.

Pressing the key executes the function shown in the message display.

E.g.:

When the menu shown below is displayed, pressing **[Left Select]** (`[Yes]`) prints the file selected. Pressing **[Right Select]** (`[No]`) stop printing and returns to the menu for the previous step.

```
Print.
Are you sure?
→ Data01

[  Yes   ] [   No    ]
```

- These keys only function when the paper jam message has appeared on the message display. A help message will then appear to facilitate jam clearing in the location.

Checking the Remaining Amount of Toner

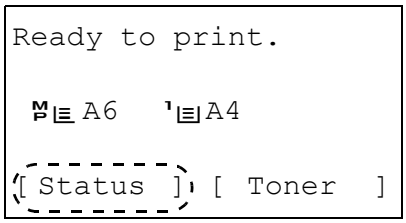
```
Ready to print.

 C            M
 Y            K
[ Status ] [ Paper  ]
```

If `Toner` is displayed at the right of the bottom row of the message display whilst the machine is printing or awaiting printing, it is possible to check the remaining amount of toner.

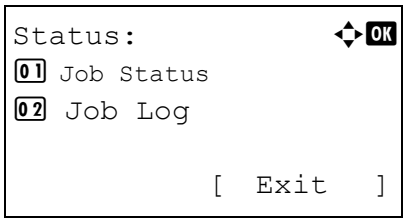
Press `[Toner]` (**[Right Select]**). The remaining amount of toner appears.

Press `[Paper]` (**[Right Select]**) to return to the previous screen.

Displaying the Status Menu Screen



If `Status` is displayed at the left of the bottom row of the message display whilst the machine is printing or awaiting printing, it is possible to display the Status menu screen.



Press `[Status]` (**[Left Select]**). The Status menu screen appears.

The following operations are possible on the Status menu screen:

- Job Status...4-8
- Job Log...4-10

Job Status

It is possible to check the status of jobs printing or awaiting printing.

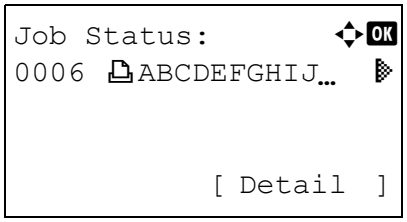
In addition to the jobs printed from computers, it is also possible to check reports such as status pages and jobs printed directly from USB memory.

The information available in the Job Status is listed below.

Item	Content	Results Displayed		
		Display	Icon	Description
Job Name	Job name	Job name		Job name
Status	Job status	Processing		Printing
		Pause		Printing suspended
		Canceling		Job canceled.
		Waiting		Print waiting
Job Type	Job type	Printer		Printed from a PC
		Report		Report
		USB		Printed from USB memory
		Box		Printed from Job Box
Accepted Time	Job reception time	Day/Month/Year Hour:Minute† Month/Day/Year Hour:Minute† Year/Month/Day Hour:Minute†		
Printed Pages	Pages printed	***Page(s)		No. of pages
		/		Copies completed/Copies specified
Color/B & W	Printing type	Full Color		Color printing
		Black & White		Black & White printing
		Mixed		Mixed Color and Black & White Printing
		- - - - -		Nothing printed

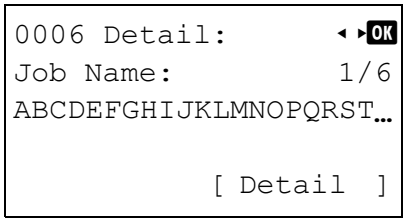
†. The display differs depending on the countries or regions.

1 In the Status menu, press △ or ▽ to select `Job Status`.



2 Press **[OK]**. `Job Status` is displayed and a list is displayed of the job numbers and job names of the jobs currently being printed or awaiting printing. Also, the type of job and results are indicated for each job using icons.

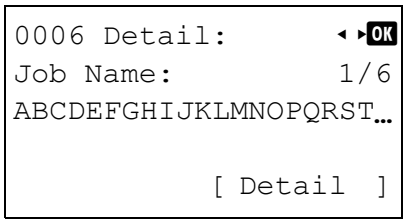
3 Press △ or ▽ to select the name of the job whose details you want to view.



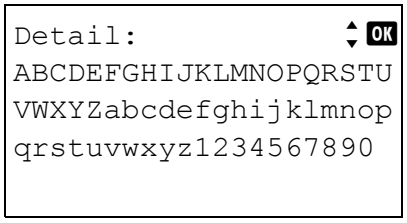
4 Press `[Detail]` (**[Right Select]**). The `Detail` screen appears.

The detailed job status covers 6 pages in all. Press ▷ to view to the next page or ◁ to return to the previous page.

Pressing **[OK]** returns you to the Job Status menu.



If the entire name shown as the Job Name will not fit on one line, pressing `[Detail]` (**[Right Select]**) changes to a 3-line name display.



Pressing **[OK]** during 3-line name display returns you to single-line name display.

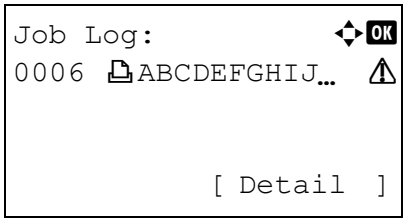
Job Log

You can use the Job Log to check the history of jobs that have already finished printing.

As well as jobs printed from PCs, this log shows the outcomes for jobs printed directly from USB memory and reports such as status pages.

The information available in the Job Log is listed below.

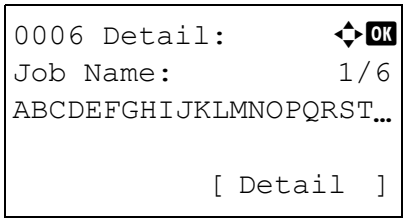
Item	Content	Results Displayed		
		Display	Icon	Description
Job Name	Job name	Job name		Job name
Result	Job status	OK	OK	Completed normally
		Error	⚠	Error occurred.
		Cancel	⊘	Job canceled.
Job Type	Job type	Printer	🖨	Printed from a PC
		Report	📄	Report
		USB	⇄	Printed from USB memory
		Box	🗂	Printed from Job Box
Accepted Time	Job reception time	Year/Month/Day Hour: Minute		
Printed Pages	Pages printed	***Page(s)		No. of pages
		/		Pages completed/Pages specified
Color/B & W	Printing type	Full Color		Color printing
		Black & White		Black & White printing
		Mixed		Mixed Color and Black & White Printing
		- - - - -		Nothing printed



1 In the Status menu, press △ or ▽ to select `Job Log`.

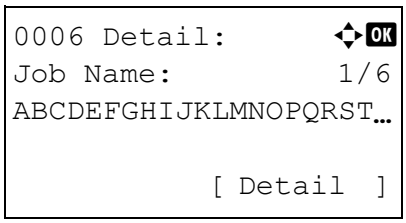
2 Press **[OK]**. `Job Log` is displayed, along with the job numbers of completed jobs and a list of the job names. The job type and result for each job are also shown as icons.

3 Press △ or ▽ to select the name of the job whose details you want to view.

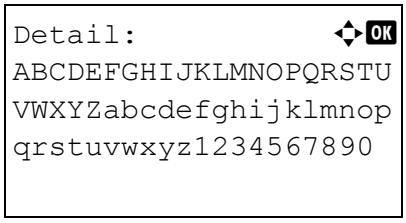


4 Press [Detail] (**[Right Select]**). The Job Log details screen appears.

The detailed job log covers 6 pages in all. Press ◁ to view to the next page or ▷ to return to the previous page. Pressing **[OK]** returns you to the Job Log menu.



If the entire name shown as the Job Name will not fit on one line, pressing [Detail] (**[Right Select]**) changes to a 3-line name display. If the name is 3 or more lines long, you can scroll up or down by pressing △ or ▽.



Pressing **[OK]** during 3-line name display returns you to single-line name display.

Using the Menu Selection System

Menu Selection System

This section explains how to use the menu selection system.

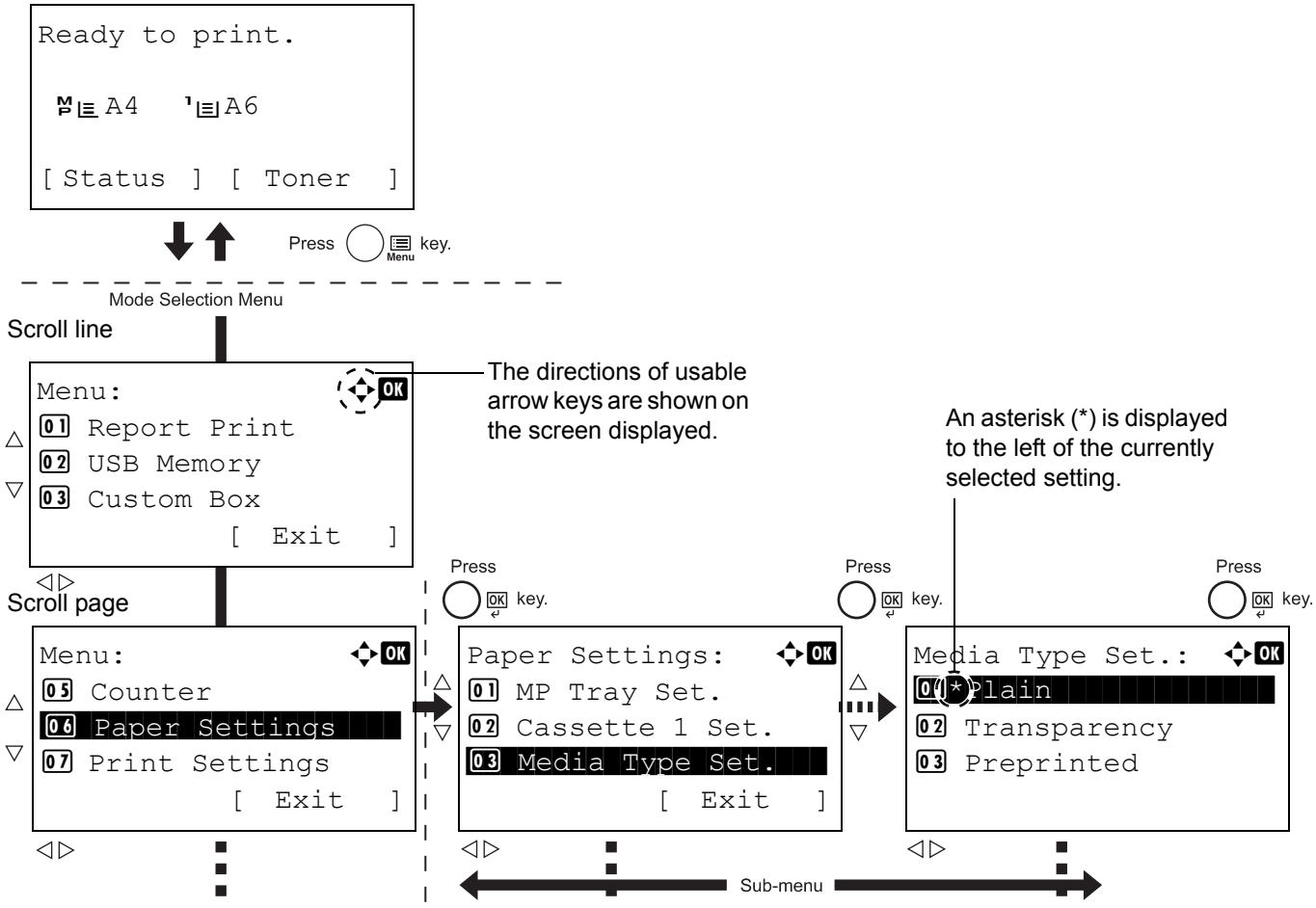
[MENU] on the operation panel allows you to use the menu to configure the printer settings to your specific needs. Settings can be made when `Ready to print.`, `Sleeping.`, `Please wait.` or `Processing.` is indicated on the printer message display.

Note Settings that are received from application software and the printer driver will take priority over settings made in the operation panel.

Entering the Mode Selection Menu

Press **[MENU]** when `Ready to print.` is indicated on the printer message display.

The mode selection menu is displayed.



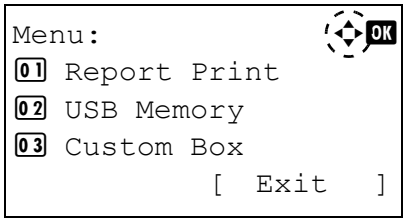
IMPORTANT Custom Box is displayed in the Mode Section Menu when the SSD is installed, and Job Box is displayed in the Mode Selection Menu when the SSD or RAM Disk is installed.

For more information, please refer to *Custom Box on page 4-23*, *Job Box on page 4-27* or *RAM Disk Setting (Using the RAM disk) on page 4-85*.

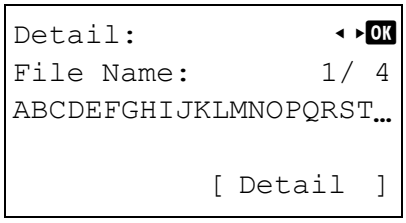
Note Only when USB memory is installed, USB Memory is displayed.

Selecting a Menu

The mode selection menu is hierarchical. Press △, ▽, ◁ or ▷ to display the desired menu.



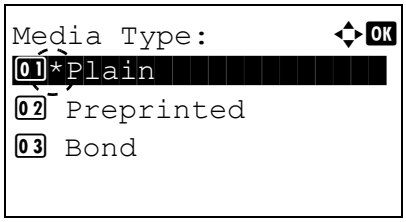
- If [✥] appears in the top-right of the screen, you can use the △ and ▽ to scroll up and down through the menu options one line at a time, and the ◁ and ▷ to move between menu options one page at a time.



- If [◂ ▸] appears in the top-right of the screen, you can use the ◁ and ▷ to switch between pages.

To return to the menu one level up, press **[Back]**.

Setting a Menu



Select the desired menu and press **[OK]**. You can now select options in the menu. press △, ▽, ◁ or ▷ to select or enter the desired setting and then press **[OK]** to confirm your selection.

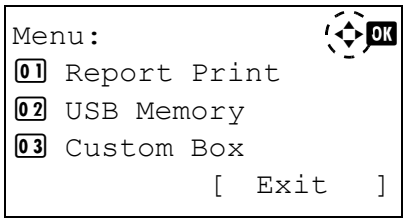
If you are choosing from a list of settings, an asterisk (*) is displayed to the left of the currently selected setting.

Canceling Menu Selection

If you press **[MENU]** when a menu is selected, the message display returns to `Ready to print.` or `Sleeping..`

Setting a Mode Selection Menu

This section explains the setting procedures used for each menu item in the mode selection menu.



1 While the printer displays `Ready to print.`, `Please wait.`, `Sleeping.` and `Processing.`, press **[MENU]**. The Mode Selection Menu is displayed.

2 Each time you press △ or ▽, the selection changes.

- Report Print
- USB Memory
- Custom Box
- Job Box
- Counter
- Paper Settings
- Print Settings
- Network
- Optional Network
- Device Common
- Security
- Job Account.Set.
- Administrator
- Adjust/Maint.

Report Print

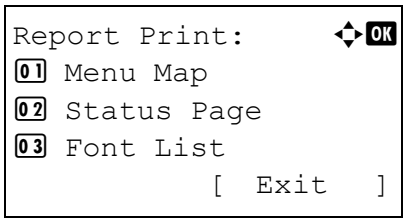
Prints a report. The options available in the Report Print menu are as follows:

- Menu Map (Printing a menu map)
- Status Page (Printing a printer's status page)
- Font List (Printing a list of the printer's fonts)
- RAM File List (Printing a list of the files on the RAM disk)
- SSD File List (Printing a list of the files on the SSD)

1 Press **[MENU]**.

2 Press △ or ▽ to select `Report Print`.

3 Press **[OK]**. The `Report Print` menu appears showing a list of the types of report that can be printed. Note that report types shown may vary depending on which optional units are installed in the printer.



Menu Map (Printing a menu map)

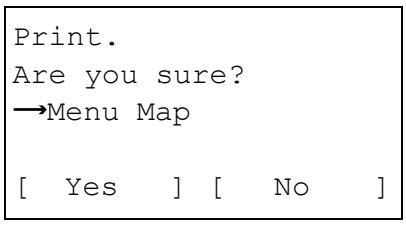
The printer prints a full list of the menu selection system menu map.

1 In the Report Print menu, press △ or ▽ to select `Menu Map`.

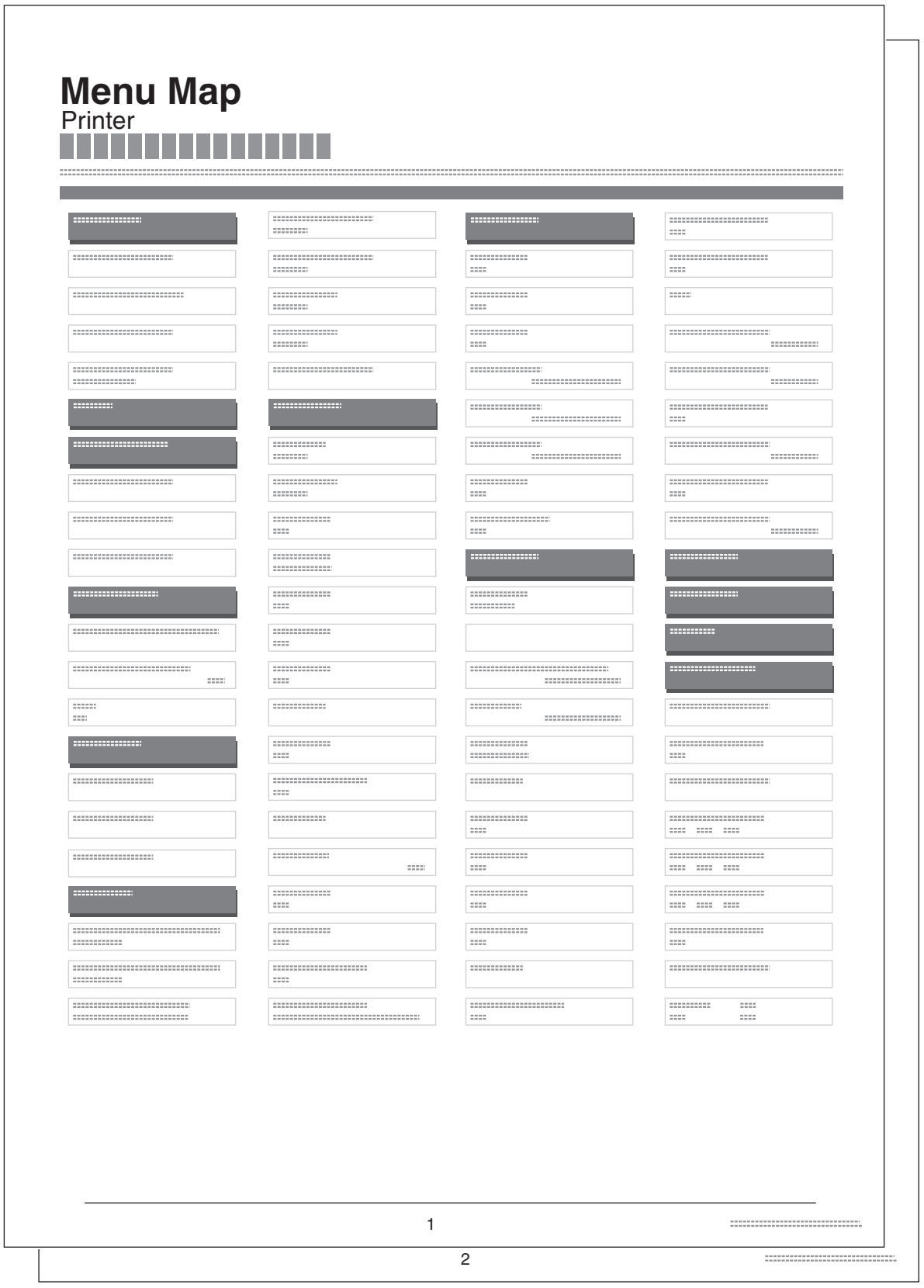
2 Press **[OK]**. A confirmation message is displayed.

3 Press `[Yes]` (**[Left Select]**). The message `Accepted.` appears and the printer prints the menu map.

Pressing `[No]` (**[Right Select]**) returns you to the Report Print menu without printing the menu map.



Menu Map Sample



Status Page (Printing a printer's status page)

You can check the printer's current status and option settings by printing a status page.

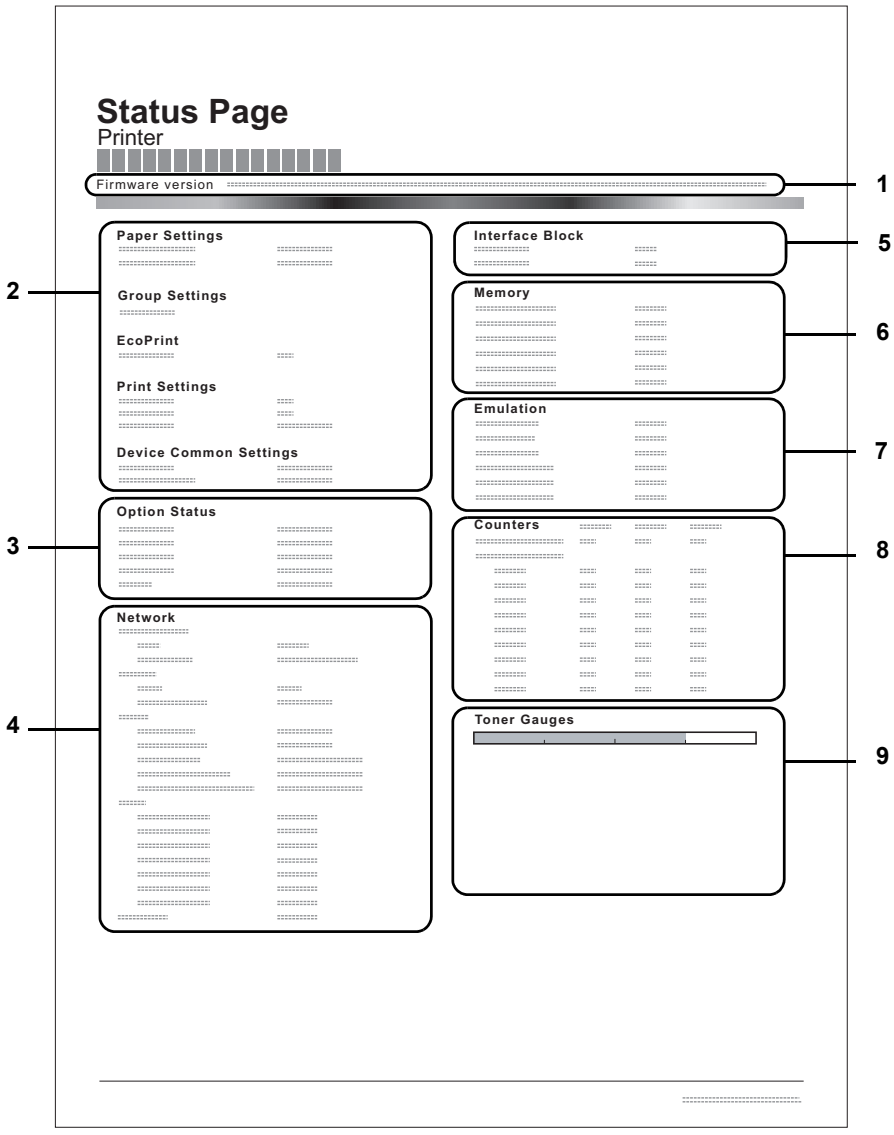
1. In the Report Print menu, press △ or ▽ to select `Status Page`.
2. Press **[OK]**. A confirmation message is displayed.
3. Press `[Yes]` (**[Left Select]**). The message `Accepted.` appears and the printer prints the status page.

   Pressing `[No]` (**[Right Select]**) returns you to the Report Print menu without printing the status page.

```
Print.
Are you sure?
→Status Page

[  Yes   ] [   No    ]
```

Understanding the Status Page

The numbers in the following diagram refer the items explained below the diagram. The items and values on the status page may vary depending on the printer's firmware version.



1 **Firmware Version**

This item shows the version and release date of the printer firmware.

2 **Printer Settings Information**

This item shows various printer settings for hardware-related items:

- Paper Settings
- Group Settings
- Print Settings
- EcoPrint
- Device Common Settings

3 **Installed Options**

This item shows the options installed in the printer:

- Paper Feeder
- SSD

4 **Network Status**

This item shows the IP address, subnet mask address, and default gateway address for the network interface card in the printer.

5 **Interface Information**

This information shows the block status for items including the USB memory slot and USB interface. When connected by network interface card (NIC), block status is shown for an optional interface.

6 **Memory**

This item shows:

- Standard memory in the printer
- Option memory slot status in megabytes
- Total memory in the printer
- Current status of the RAM disk

7 **Emulation**

This item shows all available emulations of the printer. The KPDL (AUTO) emulation is set as default when the printer is shipped from the factory. The emulations are:

- PCL 6
- KPDL

8 **Page Information**

This shows counter information. Total printed page count and total page count of each paper size are shown, and are itemized by color/monochrome/total for each counter.

9 **Consumable Status**

This item shows the approximate level of remaining toner. When the value is 100, the toner container is full. The closer to 0, the smaller the amount of remaining toner.

Font List (Printing a list of the printer's fonts)

To help you decide in selecting a font, you can printout lists of the internal fonts or the optional fonts.

1 In the Report Print menu, press △ or ▽ to select `Font List`.

2 Press **[OK]**. A confirmation message is displayed.

```
Print.
Are you sure?
→Font List

[  Yes   ] [   No    ]
```

3 Press [Yes] (**[Left Select]**). The message Accepted. appears and the printer prints the font list.

Pressing [No] (**[Right Select]**) returns you to the Report Print menu without printing the font list.

RAM File List (Printing a list of the files on the RAM disk)

This allows you to print a list of the files on the RAM disk.

IMPORTANT This is displayed when RAM Disk Mode is set to ON.

1 In the Report Print menu, press △ or ▽ to select RAM File List.

2 Press **[OK]**. A confirmation message is displayed.

```
Print.
Are you sure?
→RAM File List

[  Yes   ] [   No    ]
```

3 Press [Yes] (**[Left Select]**). The message Accepted. appears and the printer prints a list of the files held in the RAM disk.

Pressing [No] (**[Right Select]**) returns you to the Report Print menu without printing the RAM disk file list.

SSD File List (Printing a list of the files on the SSD)

This allows you to print a list of the files on the SSD.

IMPORTANT This is only displayed when the printer has a SSD installed and the disk is correctly formatted.

1 In the Report Print menu, press △ or ▽ to select SSD File List.

2 Press **[OK]**. A confirmation message is displayed.

```
Print.
Are you sure?
→SSD File List

[  Yes   ] [   No    ]
```

3 Press [Yes] (**[Left Select]**). The message Accepted. appears and the printer prints a list of the files held on the SSD.

Pressing [No] (**[Right Select]**) returns you to the Report Print menu without printing the SSD file list.

USB Memory (USB memory selection)

This specifies the settings for removing the USB memory and printing USB memory content.

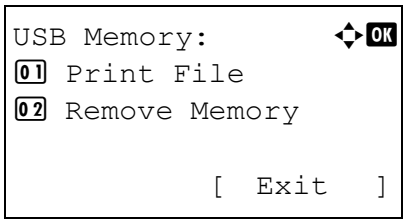
The `USB Memory` menu automatically appears when you install the USB memory.

IMPORTANT This message is displayed only when the USB host block is set to `Unblock`. For more information, please refer to *I/F Block Set. (External interface block setting) on page 4-104*

The options available in the USB Memory menu are as follows:

- Print File (Printing and checking the files in the USB memory)
- Remove Memory (Removing the USB memory)

1. Press **[MENU]**.
2. Press △ or ▽ to select `USB Memory`.
3. Press **[OK]**. The `USB Memory` menu appears showing a list of available actions.



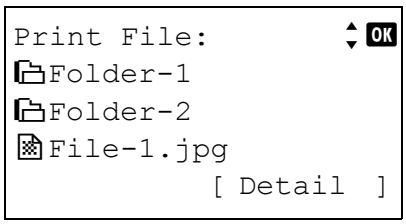
Print File (Printing and checking the files in the USB memory)

This displays a list of the files and folders in the USB memory.You can print the select file.You can also view the details of the selected file or folder.

Display of File List

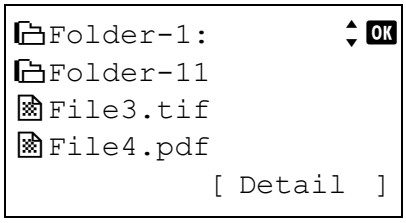
1. In the USB Memory menu, press △ or ▽ to select `Print File`.
2. Press **[OK]**. File List appears showing a list of the files and folders in the USB memory.

   If there are 3 or more files and folders, pressing △ or ▽ repeatedly scrolls up or down through the list.



Press △ or ▽ to select a folder and then press **[OK]**.

The folders and files in the selected folder are displayed.



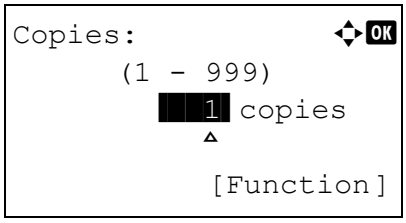
IMPORTANT Print File only shows the PDF, TIFF, JPEG and XPS files in the USB memory. Up to 3 folder levels can be displayed. Depending on the USB memory capacity and the number of files, the list may take some time to appear.

Print File (Prints the selected file)

You can use this to specify printing for files in the USB memory.

1. Use the procedure described in *Print File (Printing and checking the files in the USB memory) on page 4-20* to display a list of the files in the folder containing the file you want to print.
2. Press △ or ▽ to select the file you want to print.
3. Press **[OK]**. The `Copies` menu screen appears.

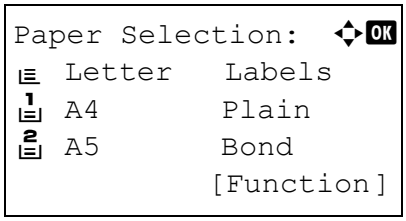
IMPORTANT To use this feature, an optional SSD must be installed in the printer or the RAM disk must be set to `ON`.



4. To print 2 or more copies, use the arrow keys to set the number of copies to be printed.

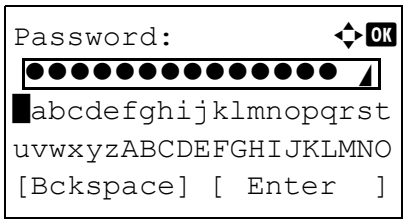
   Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

   Use ◁ and ▷ to move the cursor right and left.



5. Press **[OK]**. The `Paper Selection` menu screen appears.

6. Press △ or ▽ to select the tray containing the paper you want to use.
7. To enter the password of PDF file, press `[Function]` (**[Right Select]**).
8. Press △ or ▽ to select `Encrypted PDF`.
9. Press **[OK]**.
   The `Password` input menu screen appears.



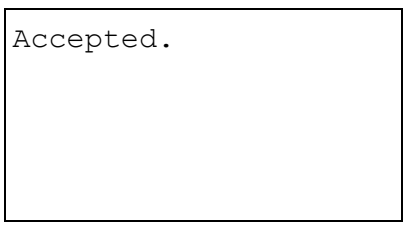
10. Move the cursor up and down with △ and ▽, and right and left with ◁ and ▷, and input the set password by pressing the **[OK]** key.

    You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

11. Press `[Enter]` (**[Right Select]**) to enter the password.

Note Configure the settings below, ad desired.
Duplex/EcoPrint/TIFF/JPEG Sise/XPS FitTo Page

12. Press **[OK]**. The `Paper Selection` menu of the above-mentioned procedure 5 screen appears.
13. Press **[OK]**. The message `Accepted.` appears and printing begins.

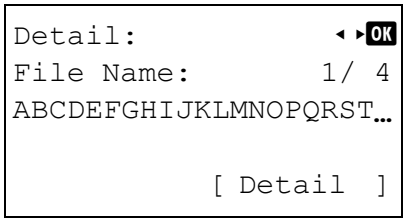


Detail (Shows the details of the selected file)

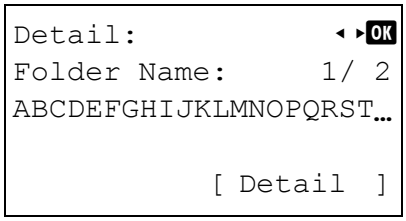
Use this to view detailed information on the files and folders in the USB memory.

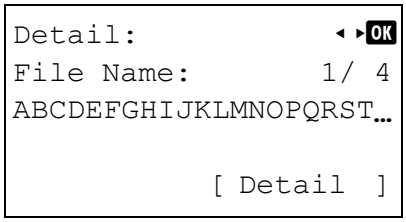
1. Use the procedure described in *Print File (Printing and checking the files in the USB memory) on page 4-20* to display a list of the files or folders you want to check.
2. Press △ or ▽ to select the folder or file you want to check.
3. Press `[Detail]` (**[Right Select]**). The `Detail` screen appears.

   If you selected a file, there are 4 Detail screens. Press ◁ or ▷ to move between the screens.

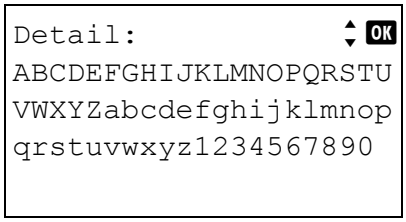


If you selected a folder, there are 2 Detail screens. Press ◁ or ▷ to move between the screens.





If the entire name shown as the `File Name` or `Folder Name` will not fit on one line, pressing `[Detail]` (**[Right Select]**) changes to a 3-line name display. If the name is 3 or more lines long, you can scroll up or down by pressing △ or ▽.

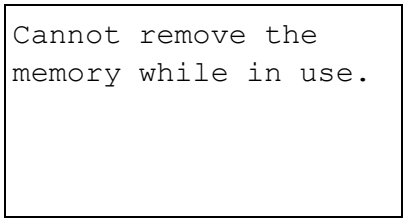


Pressing **[OK]** while file or folder details are displayed returns you to the USB Memory menu.

Remove Memory (Removing the USB memory)

Allows you to remove a USB memory device.

1. In the USB Memory menu, press △ or ▽ to select `Remove Memory`.
2. Press **[OK]**. The printer is now ready for the USB memory to be removed and the Mode Selection menu screen appears.



IMPORTANT If the screen on the left appears, the USB memory is still being used. Wait until the relevant job (e.g. printing from the USB memory) has ended and then repeat the Remove Memory procedure.

Custom Box

IMPORTANT To use a Custom Box, an optional SSD must be installed in the printer. The SSD must be formatted from the printer. For more information, refer to *Format SSD on page 4-87*.

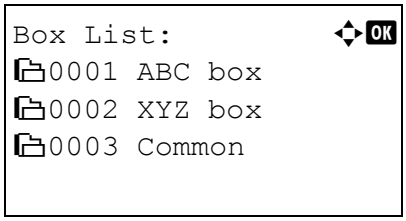
A Custom Box is a general-purpose box that allows users to store print data on the printer's SSD so that it can be reused as required.

Use the Embedded Web Server RX to create or delete a Custom Box, or to set a Box Password. For more information, refer to the *Embedded Web Server RX User Guide* and *Printing System Driver User Guide*.

Use the printer's operation panel to print the print data stored in a Custom Box.

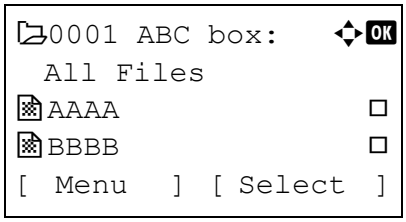
The options available in Custom Box are as follows:

- Box Password (input of the password)
- Box number/Box name (Select a File)
- Select/Deselect All Files
- Print a File
- Delete a File
- Check Custom Box Details
- Check File Details



1 Press **[MENU]**.

2 Press △ or ▽ to select `Custom Box`. `Box` menu appears showing a list of available actions.



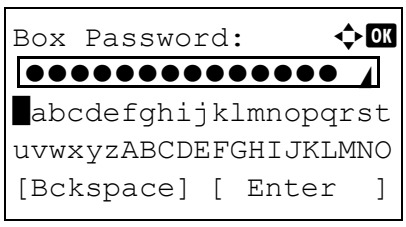
3 Press △ or ▽ to select a Custom Box.

4 Press **[OK]**. The printer displays a list of files stored in the Custom Box.

Note Please do the following procedure *Box Password (input of the password)* when you set the password to the Custom Box.

Box Password (input of the password)

The user who can access it can be limited by putting the password on the Custom Box. The password is set from Embedded Web Server RX.



1 If you have set a password for the selected Custom Box, a password input screen appears.

Press △, ▽, ◁, or ▷ to select characters, and then press **[OK]** to enter the password.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

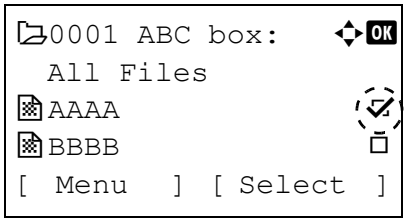
2 When the password has been entered, press [Enter] (**[Right Select]**).

Note After the password is input, collation is done. Incorrect Password is displayed for the incorrect password, and it returns to the input screen. Try to input be a correct password.

Box number/Box name (Select a File)

To print/delete a file in the Custom Box, first select the file to be printed or deleted.

1 Press △ or ▽ to select the file to be printed/deleted.



2 When [Select] (**[Right Select]**) is pressed, the file is selected. A checkmark will be placed on the right of the selected file.

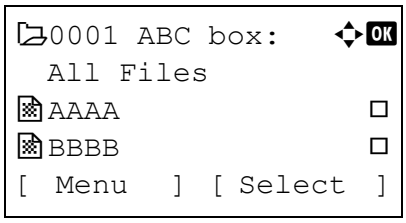
Select the checkmarked file and press [Select] (**[Right Select]**) again to cancel the selection.

Note To select all files, follow the steps of *Select/Deselect All Files on page 4-24*.

Select/Deselect All Files

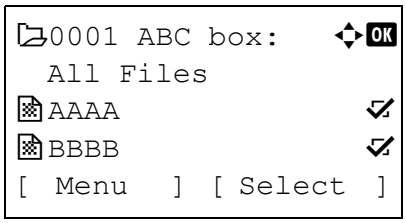
All files in the Custom Box are selected.

1 In the file list screen, press △ or ▽ to select All Files.

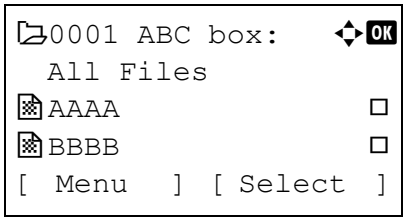


2 Press [Select] (**[Right Select]**).

When there is a file not checked in the Custom Box, all files will be checkmarked.



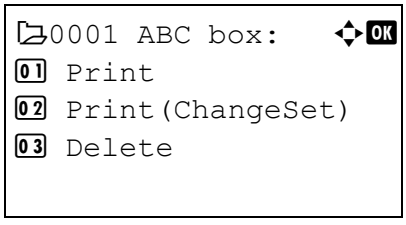
When all files in the Custom Box are checked, all checkmarked files are deselected.

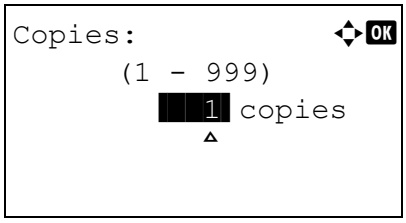


Print a File

Print the file(s) selected in the Custom Box.

1 In the file list screen, select the item and press **[OK]**. The Print/Delete menu screen appears.





2 Press △ or ▽ to select `Print` or `Print(ChangeSet)`.

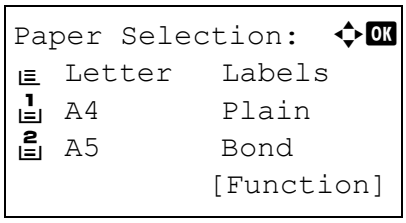
3 Press **[OK]**. The `Copies` menu screen appears.

If you want to change the number of remaining copies to be printed, use the arrow keys to set the number of copies to be printed.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

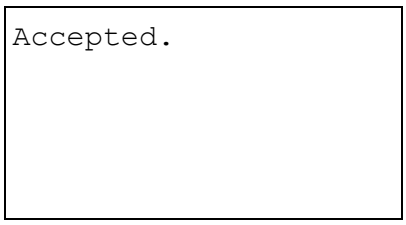
If Job Accounting is enabled, enter the account ID in the login screen that appears. The `Copies` menu screen appears after login.



4 Press **[OK]**.

If you selected `Print(ChangeSet)` in step 2, the `Paper Selection` menu screen appears. Press △ or ▽ to select the tray containing the paper you want to use.

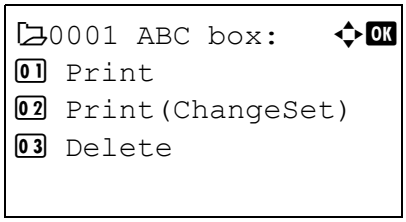
Press `[Function]` (**[Right Select]**) and configure the settings below, as desired.
Duplex/Del.after Print/EcoPrint



5 Press **[OK]**. The message `Accepted.` appears and printing begins. When `On` is selected in `Del. after Print`, the selected file will be deleted from the Custom Box after it is printed.

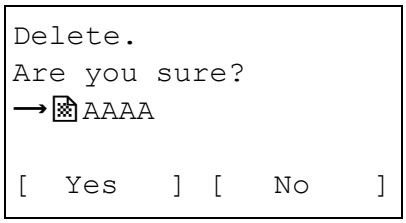
Delete a File

Delete the file(s) selected in the Custom Box.

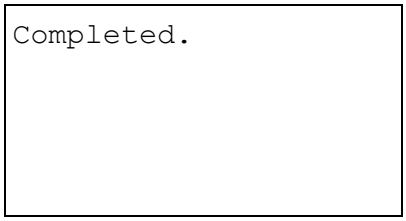


1 In the file list screen, select the item and press **[OK]**. The `Print/Delete` menu screen appears.

2 Press △ or ▽ to select `Delete`.



3 Press **[OK]**. A confirmation screen appears.



4 Press `[Yes]` (**[Left Select]**). The message `Completed.` appears and the selected file(s) are deleted.

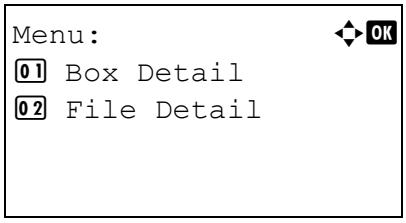
Pressing `[No]` (**[Right Select]**) returns you to the `Print/Delete` menu screen without deleting the file.

Check Custom Box Details

Details for the Custom Box that is currently displayed will appear.

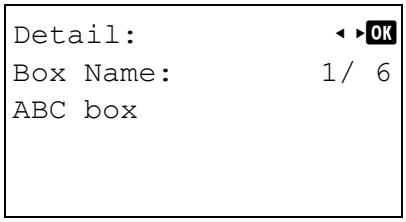
1 In the file list screen, press [Menu] (**[Left Select]**).

2 Press △ or ▽ to select Box Detail.



3 Press **[OK]**. Details for the Custom Box that is selected.

The details for the Custom Box covers 6 pages in all. Press ▷ to view to the next page or ◁ to return to the previous page.



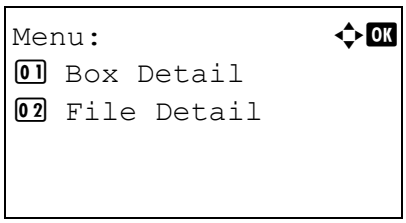
4 Pressing **[OK]** returns you to the file list screen.

Check File Details

Details for the file that is selected with the cursor will appear.

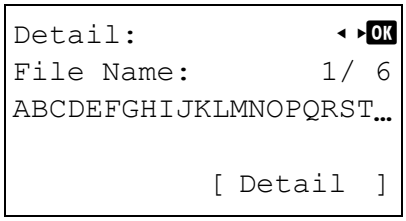
1 In the file list screen, press [Menu] (**[Left Select]**).

2 Press △ or ▽ to select File Detail.



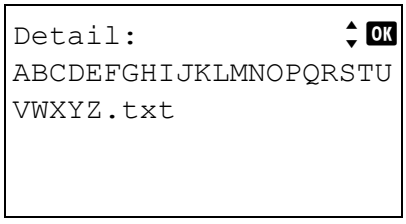
3 Press **[OK]**. Details for the file that is selected with the cursor appears.

The details for the file covers 6 pages in all. Press ▷ to view to the next page or ◁ to return to the previous page.



In the File Name screen, if the file name is abbreviated because it cannot be displayed on one line, press [Detail] (**[Right Select]**) to change the display to three lines. If the file name cannot be displayed in three lines, use △ or ▽ to scroll up and down the display.

Pressing **[OK]** in three lines display returns you to one line display.



4 Pressing **[OK]** while the file details are displayed returns you to the file list screen.

Job Box

IMPORTANT To use the Job Box, an optional SSD must be installed in the printer. The RAM disk may also be used in the Proof-and-Hold and Private Print modes. For details, refer to *RAM Disk Setting (Using the RAM disk) on page 4-85*.

Job Box is a print function that makes the Job Retention function possible. The settings are specified from the printer driver. Refer to *Printing System Driver User Guide* for the driver settings.

Job Retention

Job Retention has four modes as summarized below. These modes are selected from the printer driver through the application software:

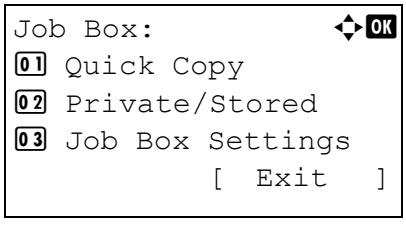
	Quick Copy	Proof-and-Hold	Private Print	Stored Job
Primary function	To later print additional copies	To proof the first copy before printing multiple copies	To hold the document in printer to prevent unauthorized access	To electronically store documents such as fax cover pages
Start storing by	Printer driver	Printer driver	Printer driver	Printer driver
On terminating print setting from application software	Prints simultaneously	Prints one copy simultaneously	Does not print	Does not print
Retrieved by	Operation panel	Operation panel	Operation panel	Operation panel
Default number of copies printed at retrieval	Same as storing (can be changed)	One less (can be changed)	Same as storing (can be changed)	One (can be changed)
Maximum number of jobs stored †	32, expandable to 50	32, expandable to 50	Depends on the SSD capacity (the job is automatically deleted after printing)	Depends on the SSD capacity
PIN security	No	No	Yes	Yes (if necessary)
Data after printing	Stored	Stored	Deleted	Stored
Data at power off	Deleted	Deleted	Deleted	Stored
SSD	Necessary	Unnecessary (RAM disk may also be used)	Unnecessary (RAM disk may also be used)	Necessary

†. Jobs in excess will cause the earlier ones to be deleted.

Note Refer to the *Printing System Driver User Guide* for the driver settings and print (save) procedures.

The options available in Job Box are as follows:

- Quick Copy (Using Quick Copy/Proof-and-Hold)
- Private/Stored (Printing a Private Print/Stored Job)
- Job Box Settings (Job Box Configuration)



1 Press **[MENU]**.

2 Press △ or ▽ to select `Job Box`.

The `Job Box` menu appears showing a list of available actions.

`Quick Copy` is only displayed if there are any jobs that were saved to the SSD in Quick Copy mode.

`Private/Stored` is only displayed if there are any jobs that were saved to the SSD or RAM disk.

Quick Copy (Using Quick Copy)

This mode enables you to print the requested number of copies of a job, simultaneously storing the job on the SSD/RAM disk. When additional copies are required, you can reprint the required number of copies from the printer operation panel. To print a job as a quick copy job, refer to *Printing System Driver User Guide*.

The default number of print jobs that can be stored on the SSD is 32. This value can be increased to up to 300. For details, refer to *Job Box Settings (Job Box Configuration) on page 4-37*. When the number of jobs reaches the limit, the oldest job will be overwritten by the new one.

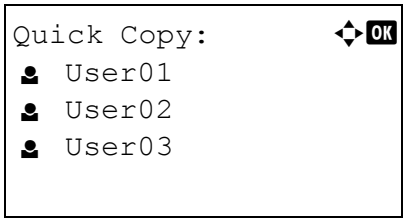
When the printer is turned off, all stored jobs will be deleted.

Note Refer to the *Printing System Driver User Guide* for the driver settings.

Printing Additional Copies using Quick Copy

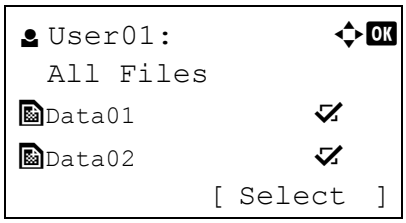
1 In the Job Box menu, press △ or ▽ to select `Quick Copy`.

2 Press **[OK]**. The `Quick Copy` screen appears listing the user names for stored jobs.



3 Press △ or ▽ to select the user name you entered in the printer driver.

4 Press **[OK]**. The printer displays a list of the jobs stored under the selected user name.



5 Press △ or ▽ to scroll to the desired job title.

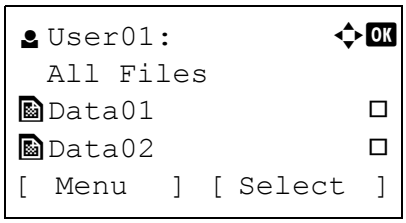
When `[Select]` (**[Right Select]**) is pressed, the file is selected. A checkmark will be placed on the right of the selected file.

Select the checkmarked file and press `[Select]` (**[Right Select]**) again to cancel the selection.

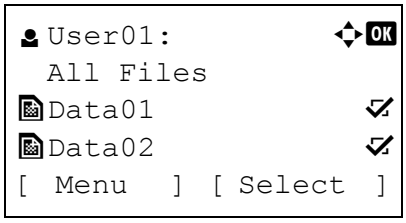
Note To select all files, follow the steps of *Select/Deselect All Files on page 4-29*

Select/Deselect All Files

All files in the Job Box are selected.

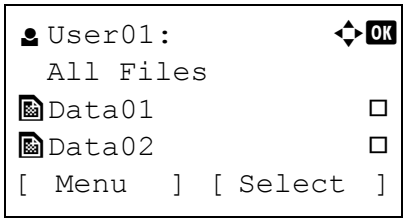


1 In the file list screen, press △ or ▽ to select `All Files`.



2 Press `[Select]` (**[Right Select]**).

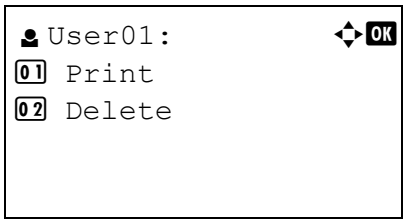
When there is a file not checked in the Job Box, all files will be checkmarked.



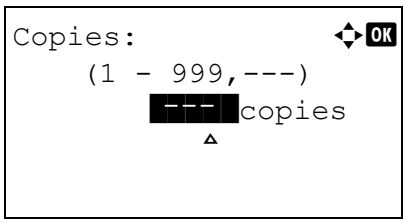
When all files in the Job Box are checked, all checkmarked files are deselected.

Print a File

Print the file(s) selected in the Job Box.



1 In the file list screen, select the item and press **[OK]**. The `Print/Delete` menu screen appears.



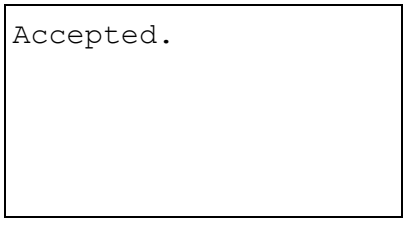
2 Press △ or ▽ to select `Print`. The `Copies` menu screen appears.

To print 2 or more copies, use the arrow keys to set the number of copies to be printed.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

Note --- is displayed first, and it means it according to the set number of copies when the data of each file is preserved. In this setting, each set number of copies is printed.



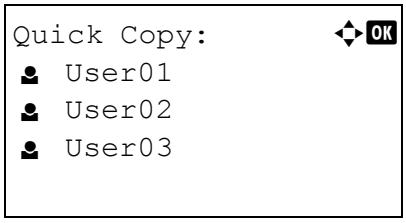
3 Press **[OK]**. The message `Accepted.` appears and the printer prints the selected job.

Deleting a Quick Copy Job

Jobs saved using Quick Copy are automatically deleted when you turn the printer off, but you can also use this procedure to delete jobs individually.

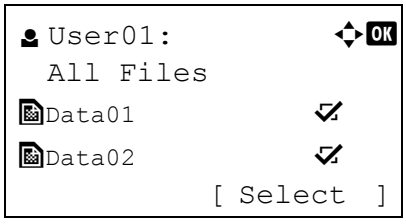
1 In the Job Box menu, press △ or ▽ to select `Quick Copy`.

2 Press **[OK]**. The `Quick Copy` screen appears listing the user names for stored jobs.



3 Press △ or ▽ to select the user name you entered in the printer driver.

4 Press **[OK]**. The printer displays a list of the jobs stored under the selected user name.



5 Press △ or ▽ to select the name of the job to be deleted.

When `[Select]` (**[Right Select]**) is pressed, the file is selected. A checkmark will be placed on the right of the selected file.

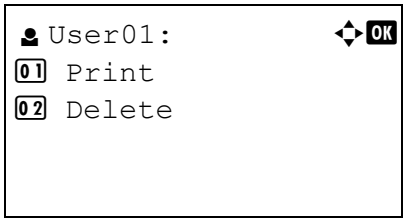
Select the checkmarked file and press `[Select]` (**[Right Select]**) again to cancel the selection.

Note To select all files, follow the steps of *Select/Deselect All Files on page 4-29*

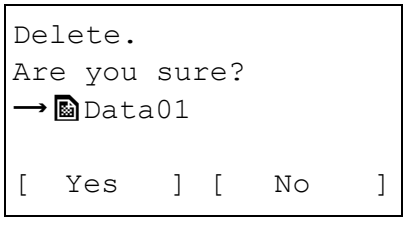
Delete a File

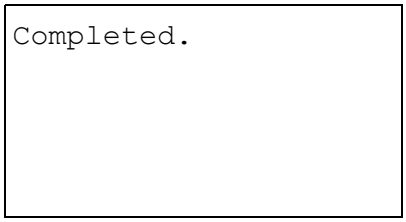
Delete the file(s) selected in the Job Box.

1 In the file list screen, select the item and press **[OK]**. The `Print/Delete` menu screen appears.



2 Press △ or ▽ to select `Delete`. A confirmation message is appears.





3 Press [Yes] (**[Left Select]**). The message Completed. appears and the printer deletes the selected job.

Pressing [No] (**[Right Select]**) returns you to return to the previous screen.

Using Proof-and-Hold

When you print multiple copies, this mode first prints one copy so that you can proof it before continuing to print the remaining copies. Since you can proof the printouts before printing the remaining copies, wastage of paper can be reduced.

The printer prints one copy and, at the same time, saves the print job on the SSD/RAM disk. You can also change the number of copies when resuming printing from the operation panel.

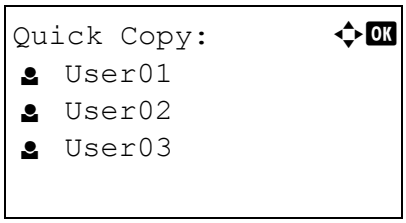
When the printer is turned off, all stored jobs will be deleted.

Printing Remaining Copies of a Proof-and-Hold Job

Refer to *Printing System Driver User Guide* for the driver settings.

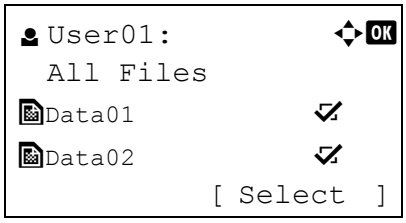
1 In the Job Box menu, press △ or ▽ to select Quick Copy.

2 Press **[OK]**. The Quick Copy screen appears listing the user names for stored jobs.



3 Press △ or ▽ to select the user name you entered in the printer driver.

4 Press **[OK]**. The printer displays a list of the jobs stored under the selected user name.



5 Press △ or ▽ to select the name of the job to be printed.

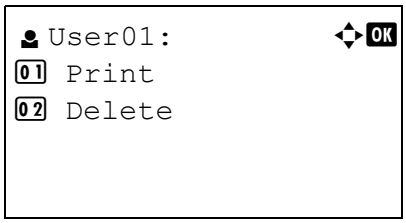
When [Select] (**[Right Select]**) is pressed, the file is selected. A checkmark will be placed on the right of the selected file.

Select the checkmarked file and press [Select] (**[Right Select]**) again to cancel the selection.

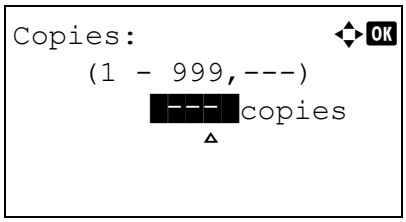
Note To select all files, follow the steps of *Select/Deselect All Files on page 4-29*

Print a File

Print the file(s) selected in the Job Box.



1 In the file list screen, select the item and press **[OK]**. The `Print/Delete` menu screen appears.



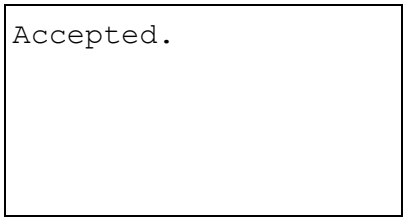
2 Press △ or ▽ to select `Print`. The `Copies` menu screen appears.

If you want to change the number of remaining copies to be printed, use the arrow keys to set the number of copies to be printed.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

Note --- is displayed first, and it means it according to the set number of copies when the data of each file is preserved. In this setting, each set number of copies is printed.

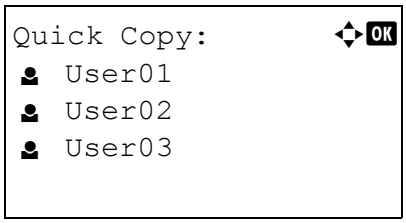


3 Press **[OK]**. The message `Accepted.` appears and the printer prints the selected job.

Deleting a Proof-and-Hold Job

Saved jobs are automatically deleted when you turn the printer off, but you can also use this procedure to delete jobs individually.

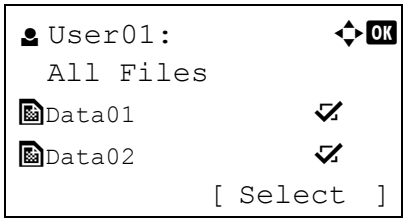
1 In the Job Box menu, press △ or ▽ to select `Quick Copy`.



2 Press **[OK]**. The `Quick Copy` screen appears listing the user names for stored jobs.

3 Press △ or ▽ to select the user name you entered in the printer driver.

4 Press **[OK]**. The printer displays a list of the jobs stored under the selected user name.



5 Press △ or ▽ to select the name of the job to be deleted.

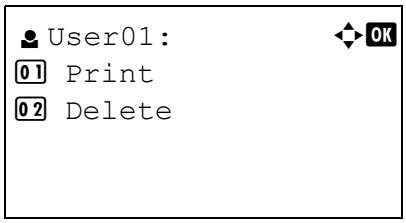
When `[Select]` (**[Right Select]**) is pressed, the file is selected. A checkmark will be placed on the right of the selected file.

Select the checkmarked file and press `[Select]` (**[Right Select]**) again to cancel the selection.

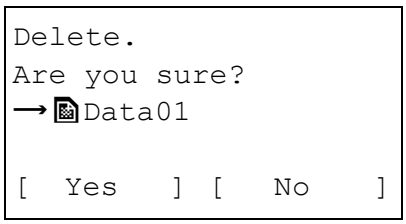
Note To select all files, follow the steps of *Select/Deselect All Files on page 4-29*

Delete a File

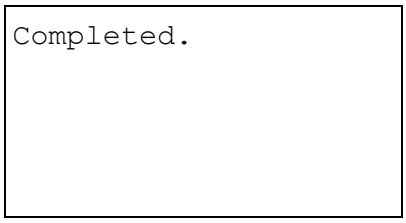
Delete the file(s) selected in the Job Box.



1 In the file list screen, select the item and press **[OK]**. The `Print`/`Delete` menu screen appears.



2 Press △ or ▽ to select `Delete`. A confirmation message is appears.



3 Press `[Yes]` (**[Left Select]**). The message `Completed.` appears and the selected job is deleted.

Pressing `[No]` (**[Right Select]**) returns you to return to the previous screen.

Private/Stored (Printing a Private Print/Stored Job)

In private printing, you can specify that a job is not printed until you release the job from the operation panel. When sending the job from the application software, specify a 4-digit access code in the printer driver. The job is released for printing by entering the access code on the operation panel ensuring confidentiality of the print job.

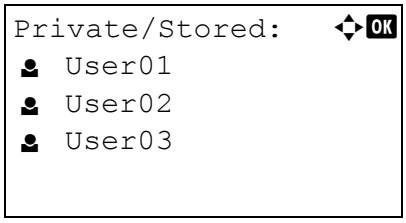
In the stored job mode, access codes are not mandatory, but can be set on the printer driver if printing with PIN security is required. Then, the access code must be entered on the operation panel to print a stored job. Print data will be stored in the SSD/RAM disk after printing.

Refer to *Printing System Driver User Guide* for the driver settings.

Printing a Private/Stored Job

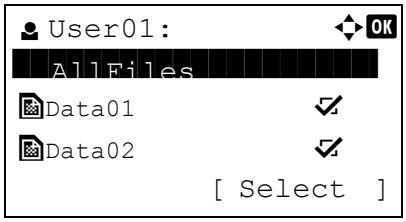
1 In the Job Box menu, press △ or ▽ to select `Private/Stored`.

2 Press **[OK]**. The `Private/Stored` screen appears listing the user names for stored jobs.



3 Press △ or ▽ to select the user name you entered in the printer driver.

4 Press **[OK]**. The printer displays a list of the jobs stored under the selected user name.



5 Press △ or ▽ to select the name of the job to be printed.

When `[Select]` (**[Right Select]**) is pressed, the file is selected. A checkmark will be placed on the right of the selected file.

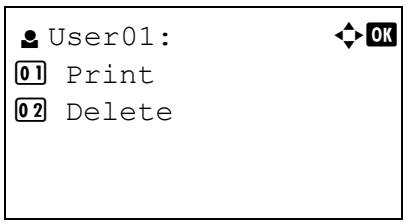
Select the checkmarked file and press `[Select]` (**[Right Select]**) again to cancel the selection.

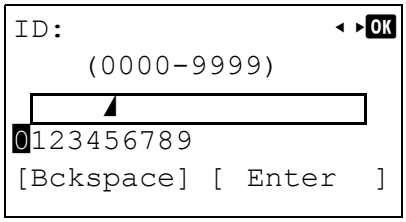
Note To select all files, follow the steps of *Select/Deselect All Files on page 4-29*

Print a File

Print the file(s) selected in the Job Box.

1 In the file list screen, select the item and press **[OK]**. The `Print/Delete` menu screen appears.





2 Press △ or ▽ to select `Print`. If the selected job was saved as a Private Print job, its `ID` is displayed. If the job was saved in stored job mode, the number of direct copies is displayed.

3 Enter the access code entered in the printer driver.

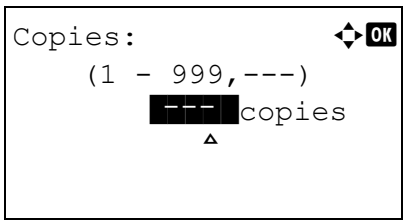
Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

Press `[Enter]` (**[Right Select]**). If the entered access code is correct, the `Copies` menu screen appears.

If the entered access code is incorrect, the `ID` menu screen reappears.

Note When the access code is set to the document selected in the check box, `Incorrect ID` is displayed for the disagreement.

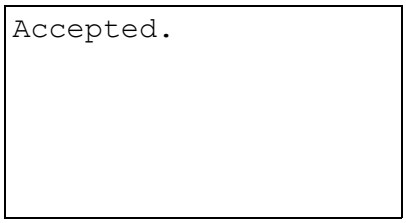


4 To print 2 or more copies, use the arrow keys to set the number of copies to be printed.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

Note --- is displayed first, and it means it according to the set number of copies when the data of each file is preserved. In this setting, each set number of copies is printed.



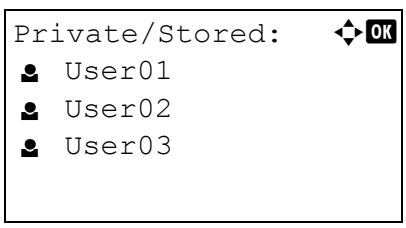
5 Press **[OK]**. The message `Accepted.` appears and the printer prints the selected job.

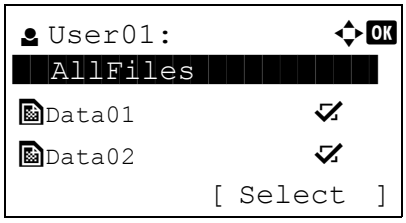
Deleting a Private/Stored Job

You can individually delete stored jobs by performing the following procedure. Jobs saved using Private Print will be automatically deleted if you turn the power off after printing, but jobs saved using Stored Job will not be deleted automatically.

1 In the Job Box menu, press △ or ▽ to select `Private/Stored`.

2 Press **[OK]**. The `Private/Stored` screen appears listing the user names for stored jobs.





3 Press △ or ▽ to select the user name you entered in the printer driver.

4 Press **[OK]**. The printer displays a list of the jobs stored under the selected user name.

5 Press △ or ▽ to select the name of the job to be printed.

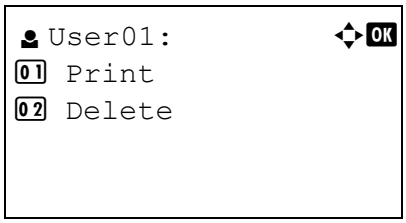
When `[Select]` (**[Right Select]**) is pressed, the file is selected. A checkmark will be placed on the right of the selected file.

Select the checkmarked file and press `[Select]` (**[Right Select]**) again to cancel the selection.

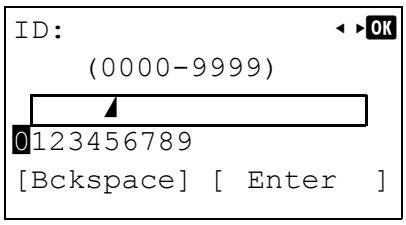
Note To select all files, follow the steps of *Select/Deselect All Files on page 4-29*.

Delete a File

Delete the file(s) selected in the Job Box.



1 In the file list screen, select the item and press **[OK]**. The `Print/Delete` menu screen appears.

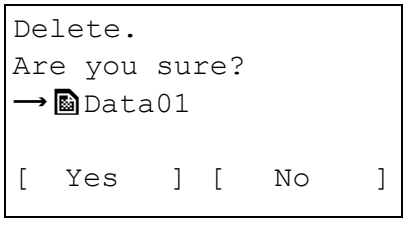


2 Press △ or ▽ to select `Delete`. The `ID` is displayed.

3 Enter the access code entered in the printer driver.

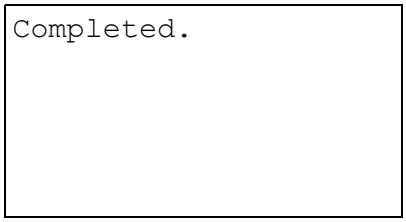
Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).



4 Press `[Enter]` (**[Right Select]**). If the entered access code is correct, the Delete menu screen appears. If the entered access code is incorrect, the `ID` menu screen reappears.

Note When the access code is set to the document selected in the check box, `ID error` is displayed for the disagreement.



5 Press [Yes] (**[Left Select]**). Complete. appears and the printer deletes the selected job.

Pressing [No] (**[Right Select]**) returns you to return to the previous screen.

Job Box Settings (Job Box Configuration)

Change Job Box settings, such as the maximum number of storable documents in the SSD, and automatic delete settings.

The following items are available in the Job Box detail settings.

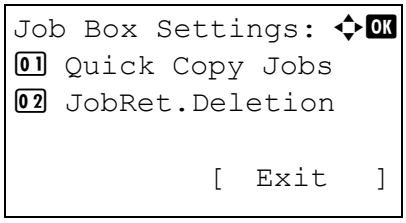
- Changing the Maximum Number of Quick Copy
- Set Automatic Delete times for Temporary Jobs

Changing the Maximum Number of Quick Copy jobs

This changes maximum number of Quick Copy jobs to a value between 0 and 300. The default is 32.

1 In the Job Box menu, press △ or ▽ to select Job Box Settings.

2 Press **[OK]**. The Job Box Settings screen appears.

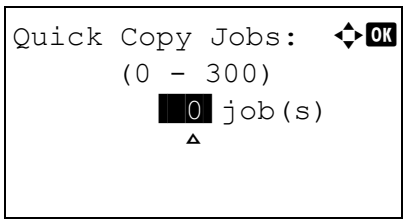


3 Select Quick Copy Jobs and press **[OK]**. The Quick Copy Jobs menu screen appears.

4 Use the arrow keys to set the maximum number of Quick Copy jobs.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.



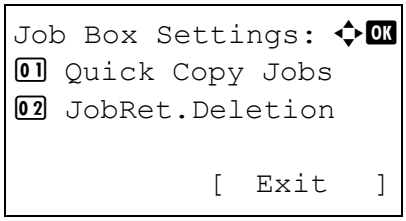
5 Press **[OK]**. The setting is stored and the Job Box Settings menu reappears.

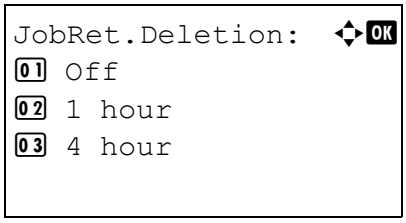
Set Automatic Delete times for Temporary Jobs

When the set period passes, the temporary jobs are automatically deleted.

1 In the Job Box menu, press △ or ▽ to select Job Box Settings.

2 Press **[OK]**. The Job Box Settings screen appears.





3 Select JobRet.Deletion and press **[OK]**. The JobRet.Deletion menu screen appears.

4 Press △ or ▽ to select the desired Automatic Delete time. The list shows the following times:

Off (automatic delete is not performed)

1 hour (deleted in 1 hour)

4 hours (deleted in 4 hours)

1 day (deleted on the next day)

1 week (deleted after one week)

5 Press **[OK]**. The setting is stored and the Job Box Settings menu reappears.

Counter (Viewing the counter value)

Displays the number of pages printed.

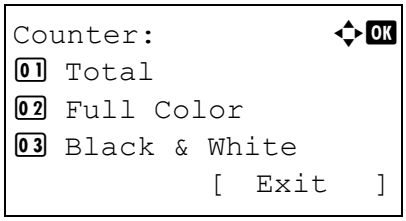
The options available in Counter are as follows:

- Total (Displaying the total printed pages)
- Full Color (Displaying the color printed pages)
- Black & White (Displaying the monochrome printed pages)

1 Press **[MENU]**.

2 Press △ or ▽ to select `Counter`.

3 Press **[OK]**. The `Counter` menu appears showing a list of available options.

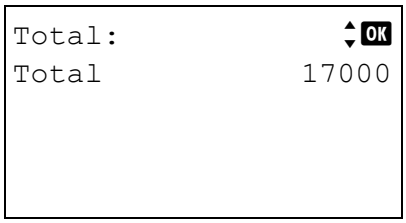


Total (Displaying the total printed pages)

This only displays the total number of pages printed. You cannot change the displayed number.

1 In the Counter menu screen, press △ or ▽ to select `Total`.

2 Press **[OK]**. The `Total` screen appears showing the total number of pages printed.



Full Color (Displaying the color printed pages)

This allows you to check the total number of color pages printed and the number of color pages printed in each of the 9 paper sizes.

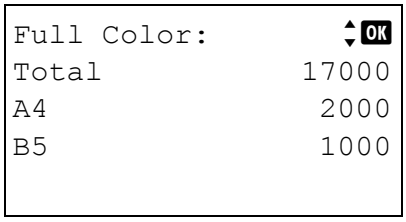
You cannot change the displayed number.

1 In the Counter menu screen, press △ or ▽ to select `Full Color`.

2 Press **[OK]**. The `Full Color` screen appears showing the total number of color pages printed and the number of color pages printed in 2 paper sizes.

Press △ or ▽ to view the number of color pages printed in other paper sizes.

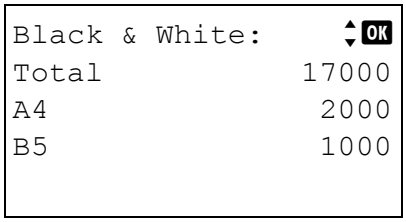
Pressing **[OK]** returns you to the Counter menu.



Black & White (Displaying the monochrome printed pages)

This allows you to check the total number of monochrome pages printed and the number of monochrome pages printed in each of the 9 paper sizes.

You cannot change the displayed number.



1 In the Counter menu screen, press △ or ▽ to select `Black & White`.

2 Press **[OK]**. The `Black & White` screen appears showing the total number of monochrome pages printed and the number of monochrome pages printed in 2 paper sizes.

Press △ or ▽ to view the number of monochrome pages printed in other paper sizes.

Pressing **[OK]** returns you to the Counter menu.

Paper Settings

This sets the paper size and type for the MP tray and cassettes from which paper is supplied.

The options available in Paper Settings are as follows:

- MP Tray Set. (MP tray settings)
- Cassette (1 to 5) Set. (Settings for the cassettes)
- Media Type Set. (Paper type settings)
- Reset Type Adj. (Resets customized settings)

1 Press **[MENU]**.

2 Press △ or ▽ to select `Paper Settings`.

3 Press **[OK]**. The `Paper Settings` menu appears showing a list of available options.

```
Paper Settings:
01 MP Tray Set.
02 Cassette 1 Set.
03 Cassette 2 Set.
           [  Exit   ]
```

MP Tray Set. (MP tray settings)

To print correctly on paper supplied from the MP tray, use the procedure below to set the paper size and media type.

Note Feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.

Paper Size (Paper size setting for MP tray)

You can use this to set the paper size that can be supplied from the MP tray. The default setting is Letter size for the U.S. and Canada and A4 for other countries.

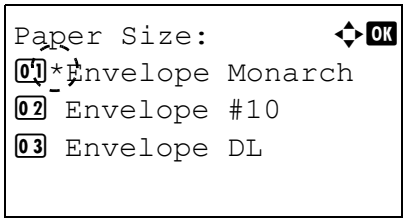
For more information about the paper sizes that you can feed from the MP tray, refer to *Paper Specifications on page 3-2*.

1 In the Paper Settings menu, press △ or ▽ to select `MP Tray Set.`.

2 Press **[OK]**. The `MP Tray Set.` menu screen appears.

```
MP Tray Set.:
01 Paper Size
02 Media Type

           [  Exit   ]
```

3 Press △ or ▽ to select `Paper Size`.



4 Press **[OK]**. The Paper Size screen appears listing the paper sizes that can be supplied from the MP tray.

The available paper sizes are as follows:

- Envelope Monarch
- Envelope #10
- Envelope DL
- Envelope C5
- Executive
- Letter
- Legal
- A4
- B5
- A5
- A6
- B6
- Envelope #9
- Envelope #6
- ISO B5
- Custom
- Hagaki
- Oufuku Hagaki
- Oficio II
- 216 x 340 mm
- 16K
- Statement
- Folio
- Youkei 2
- Youkei 4

5 Press △ or ▽ to select the desired paper size.

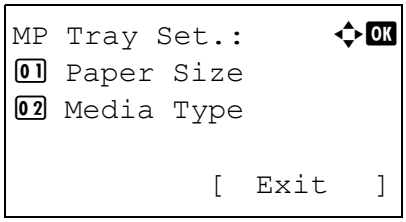
6 Press **[OK]**. The paper size for the MP tray is set and the `Paper Settings` menu screen reappears.

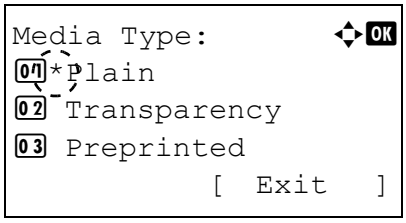
Media Type (Paper type setting for MP tray)

You can use this to set the paper type that can be supplied from the MP tray. The default setting is `PLAIN`.

For more information about paper types that you can feed from the MP tray, refer to *Paper Specifications on page 3-2*.

1 In the Paper Settings menu, press △ or ▽ to select `MP Tray Set.`.





2 Press **[OK]**. The `MP Tray Set.` menu screen appears.

3 Press △ or ▽ to select `Media Type`.

4 Press **[OK]**. The `Media Type` screen appears listing the media types that can be supplied from the MP tray.

The available paper sizes are as follows:

- `Plain`
- `Transparency`
- `Preprinted`
- `Labels`
- `Bond`
- `Recycled`
- `Vellum`
- `Rough`
- `Letterhead`
- `Color`
- `Prepunched`
- `Envelope`
- `Cardstock`
- `Coated`
- `Thick`
- `HighQuality`
- `CUSTOM1` to `8`

5 Press △ or ▽ to select the desired media type.

6 Press **[OK]**. The media type for the MP tray is set and the `Paper Settings` menu screen reappears.

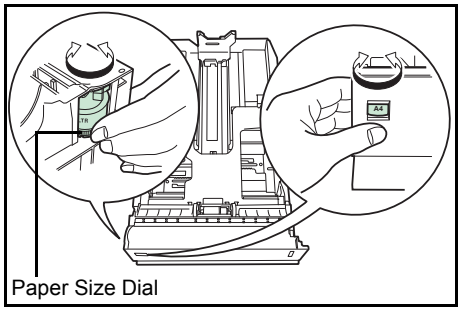
Cassette (1 to 5) Set. (Settings for the cassettes)

To print correctly on paper supplied from the cassettes, use the procedure below to set the paper size and media type.

Cassette (1 to 5) Size (Setting the cassette paper size)

To set the standard sizes A5, A4, B5, Letter, and Legal size for the paper cassette, load the paper and turn the paper size dial so that the size of the paper you are going to use appears in the paper size window. To load a non-standard paper size (sizes other than A5, A4, B5, Letter, Legal and A6 (paper cassette)) into a paper cassette, refer to the custom paper sizes listed on *page 4-44*.

If the PF-500 or PF-510 optional paper feeder is installed, use the same procedure to load paper into the paper feeder cassettes.



1 Pull the cassette out of the printer and set the paper size using the paper size dial.

2 Adjust the paper guides in the cassette to the size of the paper to be used for printing and load the paper into the cassette.

Custom Paper Size

If you use a non-standard size paper, load the paper and turn the paper size dial to **Other** (refer to *Loading Paper on page 3-14*).

Selecting the Size Dial Setting

1 Pull the cassette out of the printer and set the paper size dial to **Other**. For details, refer to step 1 in *Cassette (1 to 5) Size (Setting the cassette paper size) on page 4-43*.

2 Adjust the paper guides in the cassette to the size of the paper to be used for printing and load the paper into the cassette.

Setting the Paper Size from the Operation Panel

Use the operation panel to set the size of paper loaded in the cassette on the printer. This menu appears if the size dial for the cassette is set to **Other**.

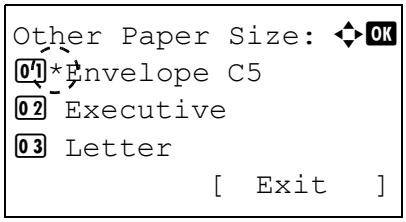
1 In the Paper Settings menu, press △ or ▽ to select the paper cassette assigned to Other on the Size Dial.

2 Press **[OK]**. The `Cassette # Set.` menu screen appears.

`#` shows the number of the cassette installed in the printer (1 to 5).

```
Cassette 1 Set.:
01 Media Type
02 Other Paper Size
03 Custom PaperSize
          [  Exit   ]
```

3 Press △ or ▽ to select `Other Paper Size`.



4 Press **[OK]**. The Other Paper screen appears listing the paper sizes that can be used in the cassette.

The available paper sizes are as follows:

- Envelope Monarch (#2)
- Envelope #10 (#2)
- Envelope DL (#2)
- Envelope C5
- Executive
- Letter
- Legal
- A4
- B5
- A5
- A6 (#1)
- Envelope #9 (#2)
- Envelope #6 (#2)
- ISO B5
- Custom
- Oufuku Hagaki (#2)
- Oficio II
- 216 x 340 mm
- 16K
- Statement
- Folio
- Youkei 2 (#2)
- Youkei 4 (#2)

(#1): Cassette 1 only

(#2): Only when optional paper feeder PF-510 is installed.

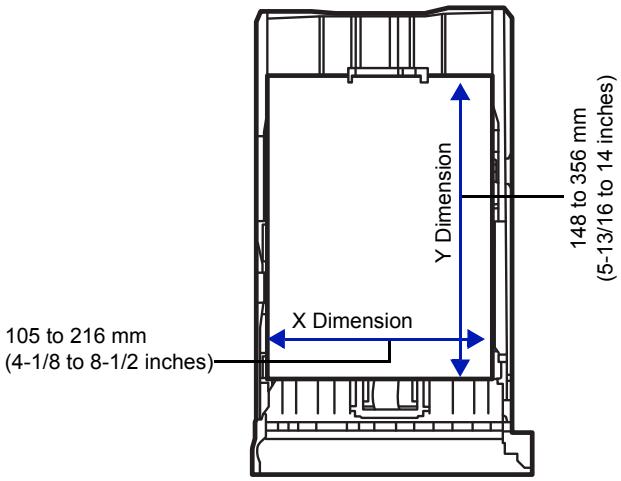
5 Press △ or ▽ to select the desired paper size.

6 Press **[OK]**. The paper size for the cassette is set and the Paper Settings menu screen reappears.

If you selected Custom in step 4, use the procedure below to specify the paper length and width.

Setting a Custom Paper Size

In the procedure below, select the units to be used for entering the custom paper size and then enter the paper width and length. As shown in the figure, enter the Y and X values for the paper size, using the selected units.




```
Cassette 1 Set.:
01 Media Type
02 Other Paper Size
03 Custom PaperSize
          [  Exit   ]
```

1 In the Cassette # Set menu, press △ or ▽ to select `Custom PaperSize`.

`#` shows the number of the cassette installed in the printer (1 to 5).

```
Custom PaperSize:
01 Measurement
02 Size Entry(Y)
03 Size Entry(X)
          [  Exit   ]
```

2 Press **[OK]**. The `Custom PaperSize` menu screen appears.

3 Press △ or ▽ to select `Measurement`.

```
Measurement:
01 *inch
02 mm
```

4 Press **[OK]**. The `Measurement` menu screen appears.

5 Press △ or ▽ to select the paper size units and then press **[OK]**. The unit for entering the paper size is set and the `Custom PaperSize` menu screen reappears.

6 Press △ or ▽ to select `Size Entry(Y)`.

```
Size Entry(Y):
   (5.83 - 14.02)
        7.00 "
```

7 Press **[OK]**. The `Size Entry(Y)` menu screen appears.

8 Use the arrow keys to enter the paper length.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

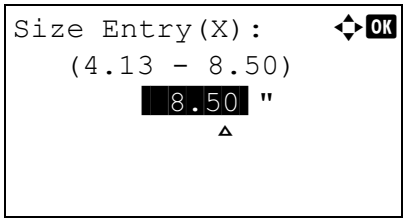
The range of paper lengths you can set for each cassette is as follows:

- Cassette:
  148 to 356 mm (5-13/16 to 14 inches)
- Paper Feeder PF-500/PF-510:
  162 to 356 mm (6-25/64 to 14 inches)

9 Press **[OK]**. The entered paper length is set and the `Custom PaperSize` menu screen reappears.

10 Press △ or ▽ to select `Size Entry(X).`

11 Press **[OK]**. The `Size Entry(X)` menu screen appears.



12 Use the arrow keys to enter the paper width.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

The range of paper widths you can set for each cassette is as follows:

- Cassette:
  105 to 216 mm (4-1/8 to 8-1/2 inches)
- Paper Feeder PF-500/PF-510:
  92 to 216 mm (3-5/8 to 8-1/2 inches)

13 Press **[OK]**. The entered paper width is set and the `Custom PaperSize` menu screen reappears.

14 Pressing `[Exit]` (**[Right Select]**) returns you to Ready to print screen.

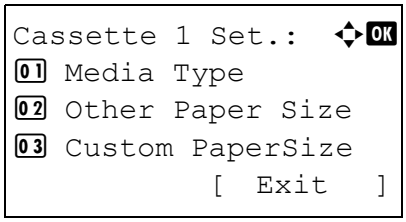
Cassette (1 to 5) Type (Setting the cassette paper type)

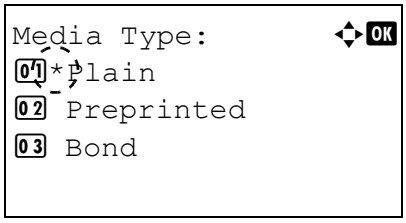
By setting a paper type (plain, recycled, etc.) for the paper cassette, you can automatically select the paper in the paper cassette according to the paper type you command on the printer driver. The default setting is plain paper for all paper cassettes.

If the PF-500 or PF-510 optional paper feeder is installed, use the same procedure to setting the cassette paper type.

For more information about paper types that you can feed from the paper cassette, refer to *Paper Specifications on page 3-2*.

1 In the Paper Settings menu, press △ or ▽ to select the cassette you want to set.





2 Press **[OK]**. The `Cassette # Set.` menu screen appears.

`#` shows the number of the cassette installed in the printer (1 to 5).

3 Press △ or ▽ to select `Media Type`.

4 Press **[OK]**. The `Media Type` screen appears listing the media types that can be used with the selected cassette.

The available Media Types are as follows:

Cassette	Paper Feeder PF-500 (Cassettes 2 to 5)	Paper Feeder PF-510 (Cassettes 2 to 5)
Plain Preprinted Bond Recycled Rough Letterhead Color Prepunched HighQuality Custom1 to 8	Plain Preprinted Bond Recycled Rough Letterhead Color Prepunched HighQuality Custom1 to 8	Plain Preprinted Labels Bond Recycled Rough Letterhead Color Prepunched Envelope Cardstock Coated Thick HighQuality Custom1 to 8

5 Press △ or ▽ to select the desired media type.

6 Press **[OK]**. The media type for the cassette is set and the `Paper Settings` menu screen reappears.

Media Type Set. (Paper type settings)

You set the paper thickness by selecting a paper weight. This allows you to set the paper thickness for each of the media types that can be used on the printer. And for custom paper registered in the printer (up to 8), you can specify paper thickness and whether duplex printing is permitted. (For the procedure for registering custom paper sizes, refer to *Setting a Custom Paper Size on page 4-46*.)

For normal settings, refer to *Setting the Paper Thickness on page 4-49*. For custom paper settings, refer to *Custom Paper Settings on page 4-50*.

Setting the Paper Thickness

You set the paper thickness by selecting a paper weight.

The available paper weights are as follows (grammages are provided as a guide)

Extra Heavy (OHP)

Heavy 3 (170 to 220 g/m^2)

Heavy 2 (135 to 170 g/m^2)

Heavy 1 (120 to 135 g/m^2)

Normal 3 (90 to 120 g/m^2)

Normal 2 (75 to 90 g/m^2)

Normal 1 (64 to 75 g/m^2)

Light (60 to 64 g/m^2)

The default setting is `Normal 2` for plain paper. When using any paper other than plain paper, you should change the paper weight referring to the table below to achieve the best possible print quality for each paper.

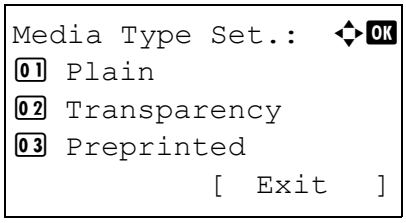
Media Type	Paper Weight
Plain	Normal 2
Transparency	Extra Heavy
Rough	Normal 3
Vellum	Light
Labels	Heavy 1
Recycled	Normal 2
Preprinted	Normal 2
Bond	Normal 3
Cardstock	Heavy 2
Color	Normal 2
Prepunched	Normal 2
Letterhead	Normal 2
Envelope	Heavy 3
Coated	Normal 3
Thick	Heavy 2
HighQuality	Normal 3
CUSTOM1 to 8	Normal 2

Use the procedure below to set the paper weight.

(For the procedure for setting weights for custom paper (CUSTOM 1 to 8), refer to *Custom Paper Settings on page 4-50*.)

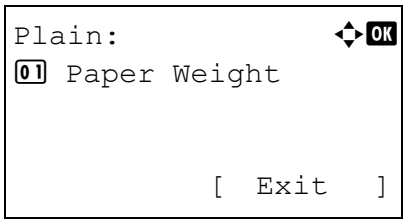
1 In the Paper Settings menu, press △ or ▽ to select `Media Type Set.`.

2 Press **[OK]**. The `Media Type Set.` screen appears listing the media types that can used with the printer.



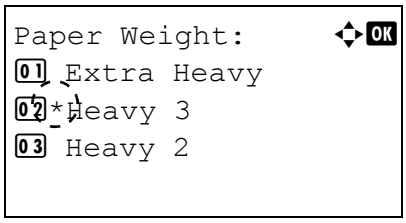
3 Press △ or ▽ to select the media type for which you want to set the paper weight.

4 Press **[OK]**. A menu for the selected media is displayed.



5 Press △ or ▽ to select `Paper Weight`.

6 Press **[OK]**. The `Paper Weight` screen appears listing the paper weights that can used with the printer.



7 Press △ or ▽ to select the desired paper weight.

8 Press **[OK]**. The paper weight is set and the `Media Type Set.` screen reappears.

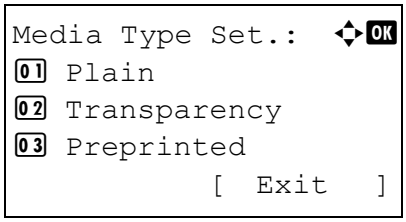
Custom Paper Settings

This setting specifies the paper weight of the selected custom paper and whether duplex printing is permitted.

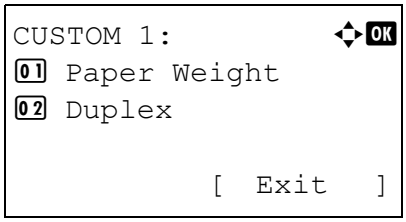
Use the procedure below to set the custom paper weight.

1 In the Paper Settings menu, press △ or ▽ to select `Media Type Set.`.

2 Press **[OK]**. The `Media Type Set.` screen appears listing the media types that can used with the printer.

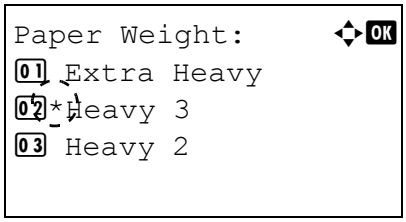


3 Press △ or ▽ to select the custom paper (CUSTOM 1 to 8) for which you want to set the paper weight.



4 Press **[OK]**. A menu for the selected media is displayed.

5 Press △ or ▽ to select `Paper Weight`.



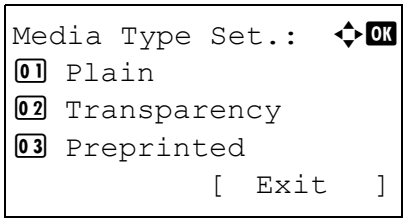
6 Press **[OK]**. The `Paper Weight` screen appears listing the paper weights that can used with the printer.

7 Press △ or ▽ to select the desired paper weight.

8 Press **[OK]**. The paper weight is set and the `Media Type Set.` screen reappears.

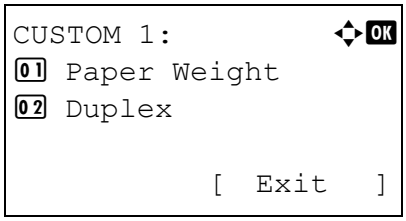
Use the procedure below to specify whether duplex printing is permitted with custom paper.

1 In the Paper Settings menu, press △ or ▽ to select `Media Type Set.`.



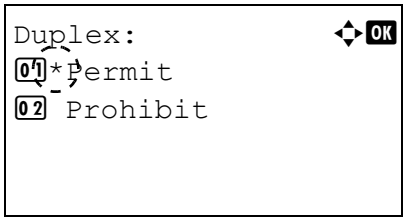
2 Press **[OK]**. The `Media Type Set.` screen appears listing the media types that can used with the printer.

3 Press △ or ▽ to select the custom paper (CUSTOM 1 to 8) for which you want to set the duplex printing permission.



4 Press **[OK]**. A menu for the selected media is displayed.

5 Press △ or ▽ to select `Duplex`.



6 Press **[OK]**. The `Duplex` screen appears listing the paper weights that can used with the printer.

7 Press △ or ▽ to specify whether duplex printing is permitted.

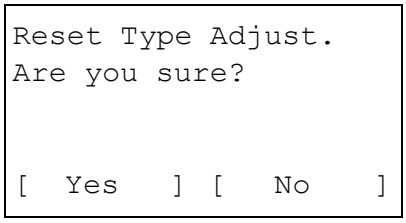
8 Press **[OK]**. The duplex printing permission is set and the `Media Type Set.` screen reappears.

Reset Type Adj. (Resets customized settings)

This resets all the settings specified in *Media Type Set. (Paper type settings) on page 4-48*.

1 In the Paper Settings menu, press △ or ▽ to select `Reset Type Adj.`.

2 Press **[OK]**. A confirmation screen appears.



3 Press `[Yes]` (**[Left Select]**). The message `Completed.` appears and the Paper Settings menu reappears.

Pressing `[No]` (**[Right Select]**) returns you to the Paper Settings menu without resetting the customized settings.

Print Settings

These settings specify the following printing parameters: paper feed source, paper feed mode, duplex printing, override A4/LTR, emulation mode, color mode, print quality, and setting pagination.

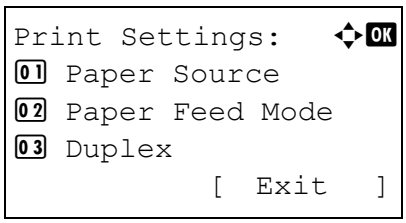
The options available in Print Settings are as follows:

- Paper Source (Selecting the paper feed source)
- Auto Cass. Change (Auto Cassette Change setting)
- Paper Feed Mode (Setting the paper feed source)
- Duplex (Setting the duplex printing)
- Override A4/LTR (Overriding difference between A4 and Letter)
- Emulation Set. (Setting the emulation)
- Color Mode (Selecting full color or black & white printing)
- Print Quality (Setting print quality)
- Page Setting (Setting pagination)
- Job Name (The Job Name display settings)

1 Press **[MENU]**.

2 Press △ or ▽ to select `Print Settings`.

3 Press **[OK]**. The `Print Settings` menu appears showing a list of available options.

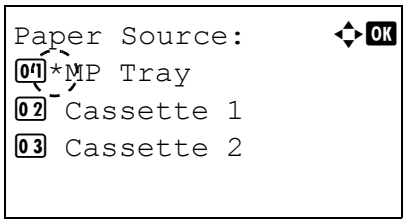


Paper Source (Selecting the paper feed source)

You can select the paper source from which the printer feeds paper as the default. If an optional paper feeder(s) is installed, it can also be set the default paper source.

1 In the Print Settings menu, press △ or ▽ to select `Paper Selection`.

2 Press **[OK]**. The `Paper Source` screen appears showing a list of the available paper sources.



The available paper sources are as follows:

`MP Tray`

`Cassette 1` (printer's standard paper cassette)

`Cassette 2 to 5` (optional paper feeders (only installed paper feeders are shown))

3 Press △ or ▽ to select the desired paper source.

4 Press **[OK]**. The paper source is set and the Print Settings menu reappears.

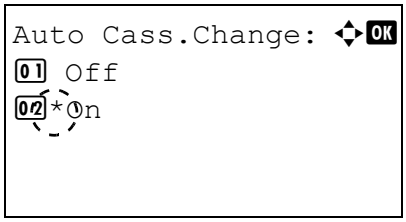
Auto Cass. Change (Auto Cassette Change setting)

You can select the following actions when the paper runs out in the paper source while printing. By default, this feature is `On`.

Off	The printer displays `Load paper cassette #.` (# is a cassette number) or `Load paper in MP Tray`, and stops printing. Load the paper according to the paper source displayed to resume printing. To print from the other paper cassette, press `[Alt.]` (**[Left Select]**). Press △ or ▽ to select the desired paper source, and then press **[OK]**.
On	The printer continues printing automatically when the other paper cassette contains the same paper as the currently-used paper cassette.

1 In the Print Settings menu, press △ or ▽ to select `Auto Cass.Change`.

2 Press **[OK]**. The `Auto Cass.Change` screen appears showing the auto cassette change settings.



3 Press △ or ▽ to select `Off` or `On`.

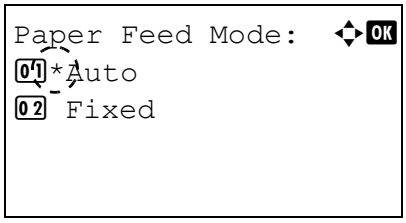
4 Press **[OK]**. The auto cassette change is set and the Print Settings menu reappears.

Paper Feed Mode (Setting the paper feed source)

This mode specifies how the paper should be fed once the paper feed source and paper type have been chosen. If `Auto` is selected, the printer searches for a paper feed source that matches the paper size and type, and paper is then delivered from that source. If `Fixed` is selected and there is no matching paper feed source, handling proceeds as specified by `Paper Mismatch` for `Error Handling`. For details on paper feeding when `Fixed` is selected, refer to *Paper Mismatch (Detection settings for paper size/type errors when the paper source is fixed) on page 4-89*. The default setting is `Auto`. To change the settings, follow the steps described below.

1 In the Print Settings menu, press △ or ▽ to select `Paper Feed Mode`.

2 Press **[OK]**. The `Paper Feed Mode` screen appears showing the available paper feed options.

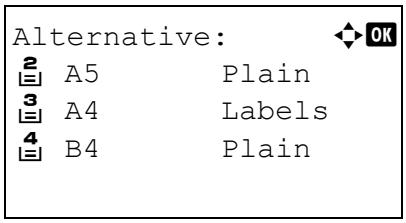


3 Press △ or ▽ to select the desired paper feed mode.

4 Press **[OK]**. The paper feed mode is set and the Print Settings menu reappears.

When the Paper Runs Out During Printing

When `Paper Feed Mode` is set to `Fixed`, if the paper in the cassette runs out during printing, `Add paper in cassette 1.` is displayed and the printer stands by. In this event, either replenish the paper in the empty cassette or use the procedure below to print from another paper source.



1. While `Load paper in cassette 1.` is displayed, press `[Alt.]` (**[Left Select]**). The `Alternative` menu screen appears.
2. Press △ or ▽ to select the desired paper feed source and paper size.

   Each time you press △ or ▽, another optional cassette or the paper size that can currently be fed from the MP tray appears.
3. Press **[OK]**. Printing continues.

Duplex (Setting the duplex printing)

Using the duplexer, you can automatically print on both sides of the paper. The duplexer is mounted underneath the printer.

Duplex printing is only available for those media types that can be fed from one of the cassettes.

Duplex printing is available for the following paper(media) types:

`PLAIN`

`PREPRINTED`

`BOND`

`RECYCLED`

`ROUGH`

`LETTERHEAD`

`COLOR`

`COATED`

`PREPUNCHED`

`HIGH QUALITY`

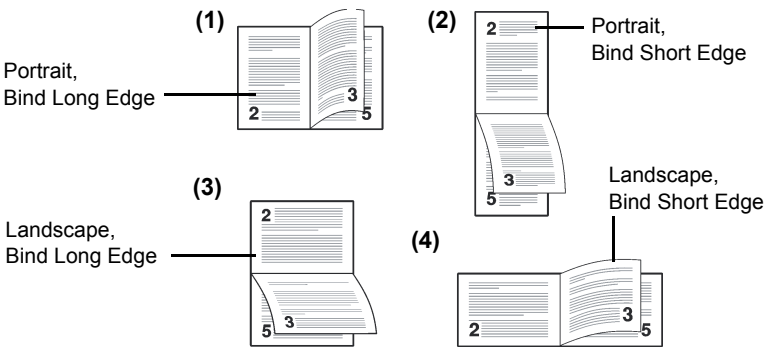
Note Duplex printing can be also performed from the MP tray. If the paper to be fed from the MP tray does not match the paper size and paper type of the current paper feed source cassette, a paper jam may occur.

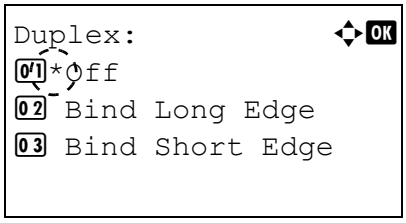
IMPORTANT Duplex printing for coated paper (`Coated`) is possible if the optional paper feeder PF-510 is installed.

Binding Modes

Binding refers to the manner in which printed pages of paper are joined together (by gluing, stitching, etc.) in book form. The two possible types of binding are: Bind Long Edge, in which pages are joined together along their long edge; and Bind Short Edge, in which they are joined together along their short edge. In selecting a binding type, you must also consider the orientation of the printed page. You can use Bind Long Edge or Bind Short Edge with either landscape or portrait printing.

Depending on the binding type and print orientation, the duplexer provides four types of binding. These are: (1) portrait, Bind Long Edge, (2) portrait, Bind Short Edge, (3) landscape, Bind Long Edge, and (4) landscape, Bind Short Edge. The figure below shows these binding methods.





1 In the Print Settings menu, press △ or ▽ to select `Duplex`.

2 Press **[OK]**. The `Duplex` screen appears showing the list of available duplex printing modes.

3 Press △ or ▽ to select the desired duplex printing mode.

The message display toggles through the following:

`Off` (default)

`Bind Long Edge`

`Bind Short Edge`

Selecting `Off` disables duplex printing.

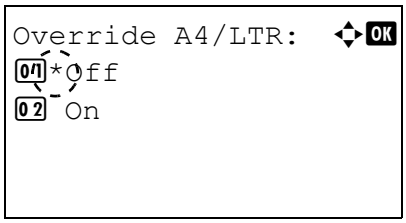
4 Press **[OK]**. The duplex printing mode is set and the Print Settings menu reappears.

Override A4/LTR (Overriding difference between A4 and Letter)

When the `Override A4/LTR` is turned `On` using the operation panel, the printer ignores the difference between A4 and Letter paper sizes. Printing is performed without an error message even if the actual paper size in the current cassette differs from the paper size formatting the job.

By default, this feature is `On`.

1 In the Print Settings menu, press △ or ▽ to select `Override A4/LTR`.



2 Press **[OK]**. The `Override A4/LTR` screen appears showing the shared paper feed mode settings.

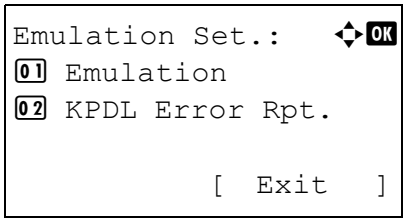
3 Press △ or ▽ to select the desired shared paper feed mode.

4 Press **[OK]**. The shared paper feed mode is set and the Print Settings menu reappears.

Emulation Set. (Setting the emulation)

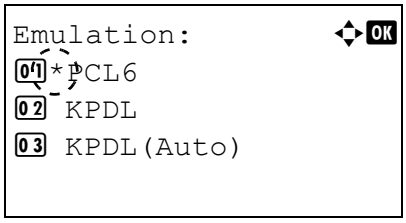
You can change the emulation mode for the current interface. Use the procedure below to select the mode.

1 In the Print Settings menu, press △ or ▽ to select `Emulation Set.`.



2 Press **[OK]**. The `Emulation Set.` menu screen appears.

3 Press △ or ▽ to select `Emulation`.



4 Press **[OK]**. The `Emulation` screen appears showing a list of the available emulations.

The available emulations are as follows:

`PCL6`

`KPDL`

`KPDL(Auto)`

5 Press △ or ▽ to select the desired emulation.

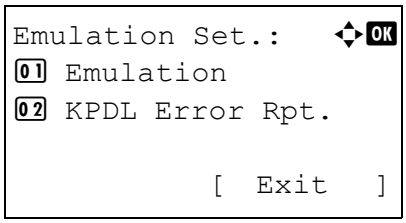
6 Press **[OK]**. The emulation is set and the Print Settings menu reappears.

Error Report (Printing KPDL errors)

The printer can print error descriptions when printing error occurs during KPDL emulation. The default is `On` — the printer does not print KPDL errors.

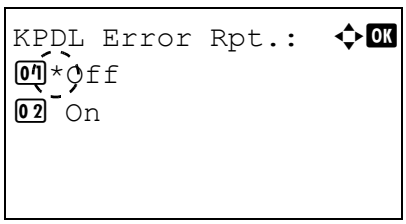
IMPORTANT This setting only appears when `KPDL` or `KPDL(Auto)` is selected for the emulation.

1 In the Print Settings menu, press △ or ▽ to select `Emulation Set.`.



2 Press **[OK]**. The `Emulation Set.` menu screen appears.

3 Press △ or ▽ to select `KPDL Error Rpt.`.



4 Press **[OK]**. The `KPDL Error Rpt.` screen appears.

5 Press △ or ▽ to select whether error reports are printed.

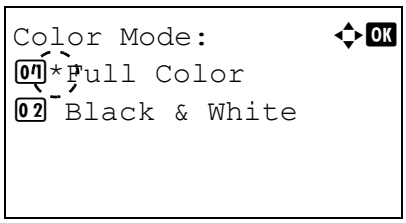
6 Press **[OK]**. The error report print setting is set and the Print Settings menu reappears.

Color Mode (Selecting full color or black & white printing)

You can use the Color Mode menu on the operation panel to select the Color or Black & White printing mode. By default, the printer is set to print in color mode.

1 In the Print Settings menu, press △ or ▽ to select `Color Mode`.

2 Press **[OK]**. The `Color Mode` screen appears.



3 Press △ or ▽ to select the desired color mode.

4 Press **[OK]**. The color mode is set and the Print Settings menu reappears.

Print Quality (Setting print quality)

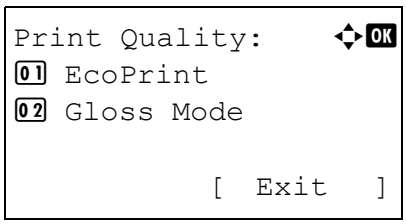
This selects the gloss mode (Low or High) and whether EcoPrint (low toner printing) is used for printing.

The options available in Print Quality are as follows:

- EcoPrint (Selecting the EcoPrint mode)
- Gloss Mode (Selecting the Gloss mode)

1 In the Print Settings menu, press △ or ▽ to select `Print Quality`.

2 Press **[OK]**. The `Print Quality` menu screen appears.



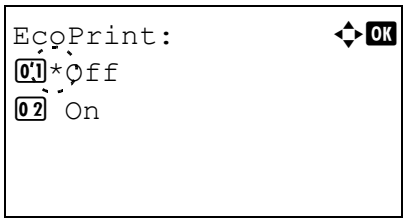
EcoPrint (Selecting the EcoPrint mode)

By enabling EcoPrint mode, you can minimize the amount of toner used during printing. Because images printed in this mode may be slightly coarser than those printed in standard resolution, you should use EcoPrint for test prints or other situations where high-quality prints are not required.

Use the procedure below to select EcoPrint mode. The default setting is `Off`.

1 In the Print Quality menu, press △ or ▽ to select `EcoPrint`.

2 Press **[OK]**. The `EcoPrint` screen appears.



3 Press △ or ▽ to select the EcoPrint mode.

4 Press **[OK]**. The EcoPrint mode is set and the `Print Quality` menu screen reappears.

Gloss Mode (Selecting the Gloss mode)

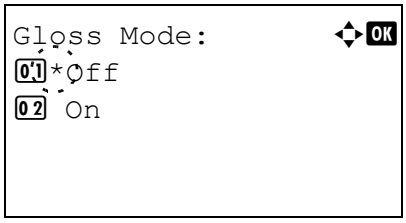
Gloss mode, when set to `On`, increases the effect of glossiness in printing by reducing the printing speed by half. Gloss mode is not available when `Labels` and `Transparency` is selected as the paper type setting.

IMPORTANT Depending on the paper used, printing in gloss mode may cause wrinkle in paper. To reduce wrinkle, try using thicker paper.

Use the procedure below to select Gloss mode. The default setting is `Off`.

1 In the Print Quality menu, press △ or ▽ to select `Gloss Mode`.

2 Press **[OK]**. The `Gloss Mode` screen appears.



3 Press △ or ▽ to select the gloss mode.

4 Press **[OK]**. The gloss mode is set and the `Print Quality` menu screen reappears.

Page Setting (Setting pagination)

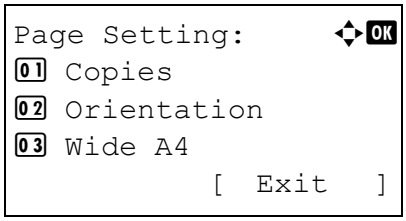
You can use the Page Setting menu to set the number of copies, the page orientation and other pagination settings.

The options available in Page Setting are as follows:

- Copies (Number of copies)
- Orientation (Print orientation)
- Wide A4 (Wide A4 pitch)
- XPS FitTo Page (Adjusting the XPS file print out size)
- TIFF/JPEG Size (Adjusting the TIFF/JPEG file print out size)

1 In the Print Settings menu, press △ or ▽ to select `Page Setting`.

2 Press **[OK]**. The `Page Setting` menu screen appears.

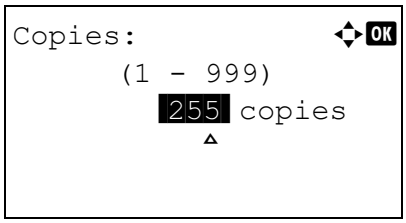


Copies (Number of copies)

You can set the number of copies of each page to be printed for the current interface.

1 In the Page Setting menu, press △ or ▽ to select `Copies`.

2 Press **[OK]**. The `Copies` screen appears.



3 Use the arrow keys to set the number of copies.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

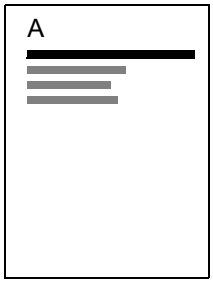
Use ◁ and ▷ to move the cursor right and left.

4 Press **[OK]**. The setting is stored and the Page Setting menu reappears.

Orientation (Print orientation)

You can select portrait (upright) or landscape (sideways) page orientation.

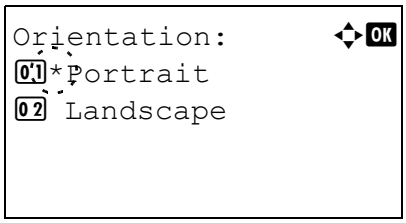
Portrait Orientation



Landscape Orientation

1 In the Page Setting menu, press △ or ▽ to select `Orientation`.

2 Press **[OK]**. The `Orientation` screen appears.



3 Press △ or ▽ to select the desired Orientation.

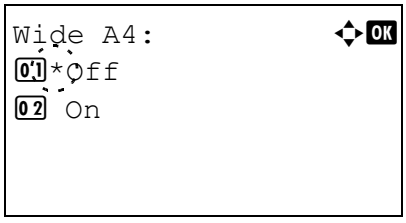
4 Press **[OK]**. The orientation is set and the Page Setting menu reappears.

Wide A4 (Wide A4 pitch)

Turn this to On to increase the maximum number of characters that can be printed in a line for an A4 page (78 characters at 10 pitch) and Letter size page (80 characters at 10 pitch). This setting is only effective in PCL 6 emulation.

1 In the Page Setting menu, press △ or ▽ to select Wide A4.

2 Press **[OK]**. The Wide A4 screen appears.



3 Press △ or ▽ to select whether Wide A4 mode is enabled.

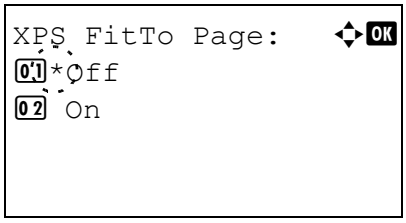
4 Press **[OK]**. The wide mode setting is set and the Page Setting menu reappears.

XPS FitTo Page (Adjusting the XPS file print out size)

Select On in this setting to enlarge or reduce XPS files to fit the printable area during printing.

1 In the Page Setting menu, press △ or ▽ to select XPS FitTo Page.

2 Press **[OK]**. The XPS FitTo Page screen appears.

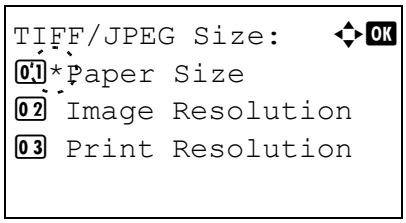


3 Press △ or ▽ to select whether XPS FitTo Page mode is enabled.

4 Press **[OK]**. The XPS FitTo Page setting is set and the Page Setting menu reappears.

TIFF/JPEG Size (Adjusting the TIFF/JPEG file print out size)

Use this setting to select the printing method used when TIFF or JPEG files are printed directly.



1. In the Page Setting menu, press △ or ▽ to select `TIFF/JPEG Size`.
2. Press **[OK]**. The `TIFF/JPEG Size` screen appears.

   The options available in TIFF/JPEG Size are as follows:

   Paper Size (default)

   Images are resized so that they fill the paper size when printed.

   Image Resolution

   Image files are printed at the resolution specified in the resolution information. Images with no resolution information are printed using the Paper Size setting.

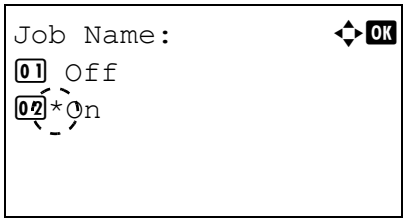
   Print Resolution

   Images are printed using a 1-to-1 correspondence between the image file pixels and printed dots. For example, the printed size of a 600 x 300-pixel image file is 1 inch x 1/2 inch.
3. Press △ or ▽ to select whether TIFF/JPEG Size mode is enabled.
4. Press **[OK]**. The TIFF/JPEG Size setting is set and the Page Setting menu reappears.

Note Images are automatically rotated during printing to provide a closer match between the aspect ratios of the image file and the paper used for printing.

Job Name (The Job Name display settings)

Set whether the job name set in the printer driver is displayed.



1. In the Print Settings menu, press △ or ▽ to select `Job Name`.
2. Press **[OK]**. The `Job Name` screen appears.

   The options available in Job Name are as follows:
   `Off`
   `Job Name` (Use the job name set in the printer driver.)
   `Job No. + Job Name`
   `Job Name + Job No.`
3. Press △ or ▽ to select the desired job name.
4. Press **[OK]**. The Job Name setting is set and the `Print Settings` menu reappears.

Network (Network settings)

This printer supports TCP/IP and TCP/IP (IPv6) protocols.

IP is an abbreviation for Internet Protocol. This printer routinely uses the TCP/IP (IPv4) protocol, but provides a separate setting for the next-generation IP, IPv6.

TCP/IP (IPv4) uses 32-bit IP addresses, but the rapid growth in the number of Internet users has resulted in a shortage of IP addresses. IPv6 was developed to expand the range of available IP addresses by using 128-bit IP addresses.

The options available in the Network settings are as follows:

- TCP/IP (Enable/Disable TCP/IP)
- IPv4 Setting (TCP/IP IPv4 settings)
- IPv6 Setting (TCP/IP IPv6 settings)
- Protocol Detail (Detailed settings for the network protocol)
- Restart Network (Restarting the network card)

Note Check with your network administrator when selecting the network setting. After all network related settings have been done, restart the network. Refer to *Restart Network (Restarting the network card) on page 4-72*. This is mandatory to make the settings effective!
When Embedded Web Server RX is used, network parameters and security settings can be conveniently changed and checked from your PC. For more information, refer to the *Embedded Web Server RX User Guide*.

1 Press **[MENU]**.

2 Press △ or ▽ to select `Network`.

3 Press **[OK]**. The Network menu appears showing a list of available options.

```
Network:                OK
01 TCP/IP Settings
02 Restart Network

           [  Exit   ]
```

4 Select `TCP/IP Settings` and press **[OK]**. The `TCP/IP Settings` menu screen appears.

```
TCP/IP Settings:        OK
01 TCP/IP
02 IPv4 Setting
03 IPv6 Setting
           [  Exit   ]
```

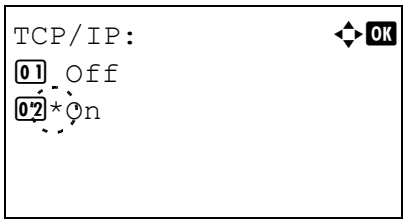
TCP/IP (Enable/Disable TCP/IP)

The TCP/IP system refers to the Internet system, which has a 5-layer structure consisting of the interface layer, link layer, network (IP) layer, transport (TCP/UDP) layer and application layer.

The interface layer is a key layer in the TCP/IP system that provides an abstracted interface that is not dependent on the link (communication line: frame relay or Ethernet, etc.) to the IP module (IP layer). This means that the IP module can use this abstracted interface (which is not dependent on the link type) to exchange IP packets back and forth with the link layer.

1 In the TCP/IP Settings menu, press △ or ▽ to select `TCP/IP`.

2 Press **[OK]**. The `TCP/IP` screen appears.



3 Press △ or ▽ to select whether TCP/IP is enabled.

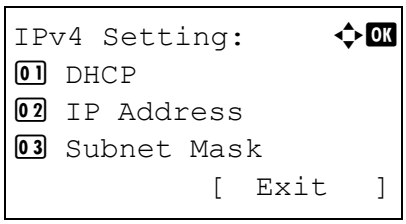
4 Press **[OK]**. The TCP/IP setting is set and the TCP/IP Set. menu reappears.

IPv4 Setting (TCP/IP IPv4 settings)

This selects the settings for TCP/IP (IPv4).

1 In the TCP/IP Settings menu, press △ or ▽ to select `IPv4 Setting`.

2 Press **[OK]**. The `IPv4 Setting` menu screen appears.



The options available in the TCP/IP (IPv4) settings are as follows:

- DHCP (DHCP setting)
- Auto-IP (Auto-IP setting)
- IP Address (IP address setting)
- Subnet Mask (Subnet mask setting)
- Default Gateway (Gateway setting)
- Bonjour (Bonjour setting)

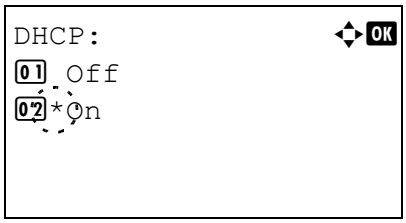
IMPORTANT The DHCP, IP address, subnet mask, gateway and Bonjour menu options for TCP/IP (IPv4 settings) are displayed when TCP/IP is enabled.

DHCP (DHCP setting)

DHCP (Dynamic Host Configuration Protocol) is the protocol that assigns the information required to establish a network connection when a host attempts to connect to the network (Internet). This information includes the IP address of the local node and the default router (the router in the host's own network system) and the DNS (Domain Name System) server. DHCP is an extension of the BOOTP (Bootstrap) startup protocol.

1 In the IPv4 Setting menu, press △ or ▽ to select `DHCP`.

2 Press **[OK]**. The `DHCP` screen appears.



3 Press △ or ▽ to select whether DHCP is enabled.

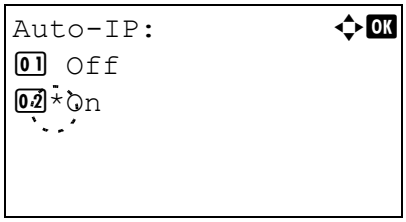
4 Press **[OK]**. The DHCP setting is set and the IPv4 Setting menu reappears.

Auto-IP (Auto-IP setting)

This protocol is used for automatic assignment of an IP address when you connect to a small network that does not have a DHCP server. Select an address from the range 169.254.0.1 to 169.254.255.254, and if no other device on the network is using that address, it is used as your address.

1 In the IPv4 Setting menu, press △ or ▽ to select `Auto-IP`.

2 Press **[OK]**. The `Auto-IP` screen appears.



3 Press △ or ▽ to select whether `Auto-IP` is enabled.

4 Press **[OK]**. The Auto-IP setting is set and the IPv4 Setting menu reappears.

IP Address (IP address setting)

An IP address is the address of a network device such as a computer and is included in IP packets as needed for the sending and receiving of Internet data (IP packets). (IP addresses can be either destination addresses or source addresses.)

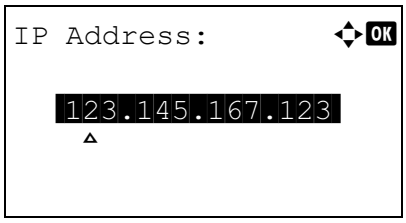
Specifically, an IP address is a bit string consisting of a host address (or host section) that identifies a computer (host) connected to the Internet and a network address (or network section) that identifies the network to which that computer belongs (or more specifically, the computer's network interface). Bit strings (IP addresses) that are unique throughout the entire Internet system are allocated to each computer or interface.

The IP addresses currently used on the Internet (IPv4) have a fixed length of 32 bits.

Note When you enter the IP address, be sure to set the DHCP setting to Off.

1 In the IPv4 Setting menu, press △ or ▽ to select IP Address.

2 Press **[OK]**. The IP Address screen appears.



3 Use the arrow keys to set the IP address.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between 000 and 255.

Use ◁ and ▷ to move the cursor right and left.

4 Press **[OK]**. The IP address is stored and the IPv4 Setting menu reappears.

Subnet Mask (Subnet mask setting)

The subnet mask is a way of augmenting the network address section of an IP address.

A subnet mask represents all network address sections as 1 and all host address sections as 0. The number of bits in the prefix indicates the length of the network address. The term "prefix" refers to something added to the beginning and, in this context, indicates the first section of the IP address.

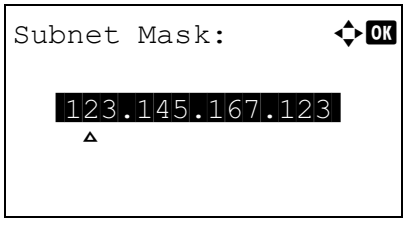
When an IP address is written, the length of the network address can indicated by the prefix length after a forward slash (/). For example, "24" in the address "133.210.2.0/24". In this way, "133.210.2.0/24" denotes the IP address "133.210.2.0" with a 24-bit prefix (network section).

This new network address section (originally part of the host address) made possible by the subnet mask is referred to as the subnet address.

Note When you enter the subnet mask, be sure to set the DHCP setting to Off.

1 In the IPv4 Setting menu, press △ or ▽ to select Subnet Mask.

2 Press **[OK]**. The Subnet Mask screen appears.



3 Use the arrow keys to set the subnet mask.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between 000 and 255.

Use ◁ and ▷ to move the cursor right and left.

4 Press **[OK]**. The subnet mask setting is stored and the IPv4 Setting menu reappears.

Default Gateway (Gateway setting)

Gateway generally refers to a protocol conversion device used to allow networks with differing protocol systems to interconnect.

For example, a "Gateway" device is required to connect a different closed network (using its own protocols) to the open Internet (using TCP/IP).

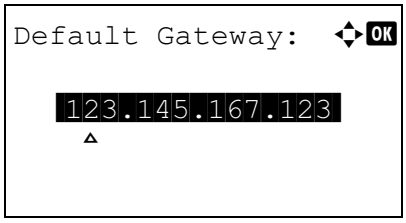
By installing a gateway, the communications protocols and data display modes on different networks can be made compatible.

On TCP/IP networks, the term gateway is used to refer to routers.

Note Before you input the gateway, be sure to set the `DHCP` setting to `Off`.

1 In the IPv4 Setting menu, press △ or ▽ to select `Default Gateway`.

2 Press **[OK]**. The `Default Gateway` screen appears.



3 Use the arrow keys to set the default gateway.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor. You can set any value between `000` and `255`.

Use ◁ and ▷ to move the cursor right and left.

4 Press **[OK]**. The default gateway is stored and the IPv4 Setting menu reappears.

Bonjour (Bonjour setting)

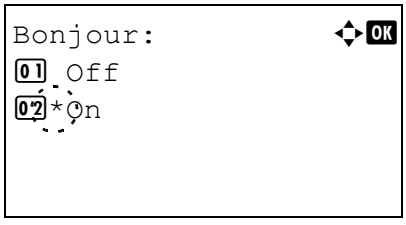
Bonjour, also known as zero-configuration networking, is a service that automatically detects computers, devices and services on an IP network.

Bonjour, because an industry-standard IP protocol is used, allows devices to automatically recognize each other without an IP address being specified or DNS server being set.

Bonjour also sends and receives network packets by UDP port 5353. If a firewall is enabled, the user must check that UDP port 5353 is left open so that Bonjour will run correctly. Some firewalls are set up so as to reject only certain Bonjour packets. If Bonjour does not run stably, check the firewall settings and ensure that Bonjour is registered on the exceptions list and that Bonjour packets are accepted. If you install Bonjour on Windows XP Service Pack 2 or later, the Windows firewall will be set up correctly for Bonjour.

1 In the IPv4 Setting menu, press △ or ▽ to select `Bonjour`.

2 Press **[OK]**. The `Bonjour` screen appears.



3 Press △ or ▽ to select whether automatic detection is enabled.

4 Press **[OK]**. The automatic detection setting is set and the IPv4 Setting menu reappears.

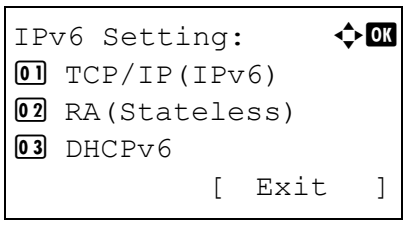
IPv6 Setting (TCP/IP IPv6 settings)

This selects the settings for TCP/IP (IPv6).

TCP/IP (IPv6) is based on the current Internet protocol, TCP/IP (IPv4). IPv6 is the next-generation Internet protocol and expands the available address space, which resolves the problem of the lack of addresses under IPv4, while also introducing other improvements such as additional security functionality and the capacity to prioritize data transmission.

1 In the TCP/IP Settings menu, press △ or ▽ to select `IPv6 Setting`.

2 Press **[OK]**. The `IPv6 Setting` menu screen appears.



The options available in the TCP/IP (IPv6) settings are as follows:

- TCP/IP(IPv6) (Enable/disable TCP/IP (IPv6))
- RA(Stateless) (RA (Stateless) setting)
- DHCPv6 (DHCPv6 setting)

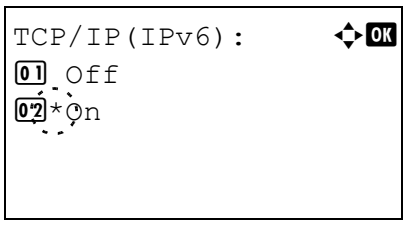
IMPORTANT The RA (Stateless) and DHCPv6 menu options for TCP/IP (IPv6) are displayed when TCP/IP (IPv6) is enabled.

TCP/IP(IPv6) (Enable/disable TCP/IP (IPv6))

This specified whether TCP/IP (IPv6) is used.

1 In the IPv6 Setting menu, press △ or ▽ to select `TCP/IP(IPv6)`.

2 Press **[OK]**. The `TCP/IP(IPv6)` screen appears.



3 Press △ or ▽ to select whether TCP/IP (IPv6) is enabled.

4 Press **[OK]**. The TCP/IP (IPv6) setting is set and the IPv6 Setting menu reappears.

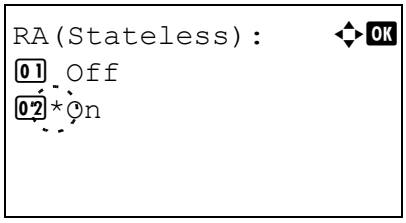
RA(Stateless) (RA (Stateless) setting)

The IPv6 router communicates (transmits) information such as the global address prefix using ICMPv6. This information is the Router Advertisement (RA).

ICMPv6 stands for Internet Control Message Protocol, and is a IPv6 standard defined in the RFC 2463 "Internet Control Message Protocol (ICMPv6) for the Internet Protocol Version 6 (IPv6) Specification".

1 In the IPv6 Setting menu, press △ or ▽ to select `RA(Stateless)`.

2 Press **[OK]**. The `RA(Stateless)` screen appears.



3 Press △ or ▽ to select whether RA (Stateless) is enabled.

4 Press **[OK]**. The RA (Stateless) setting is set and the IPv6 Setting menu reappears.

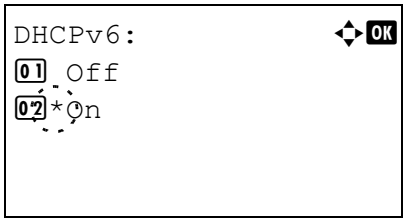
DHCPv6 (DHCPv6 setting)

DHCPv6 is the next-generation of the Internet's Dynamic Host Configuration Protocol and supports IPv6. It extends the BOOTP startup protocol that defines the protocols used for transferring configuration information to hosts on the network.

DHCPv6 permits the DHCP server to use its expanded functionality to send configuration parameters to an IPv6 node. Because the network addresses that can be used are allocated automatically, the IPv6 node management workload is reduced in systems where the administrator has to exercise close control over IP address allocation.

1 In the IPv6 Setting menu, press △ or ▽ to select `DHCPv6`.

2 Press **[OK]**. The `DHCPv6` screen appears.



3 Press △ or ▽ to select whether DHCPv6 is enabled.

4 Press **[OK]**. The DHCPv6 setting is set and the IPv6 Setting menu reappears.

Protocol Detail (Detailed settings for the network protocol)

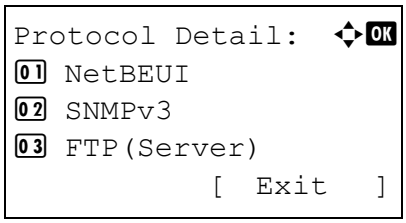
This selects the settings for Protocol Detail.

Item	Description	Default Setting	Restarting the System†
NetBEUI	Selects whether or not to receive documents using NetBEUI.	On	×
SNMPv3	Set SNMPv3.	Off	●
FTP (Server)	Select whether or not to receive documents using FTP.	On	●
SNMP	Select whether or not to communicate using SNMP.	On	●
SMTP	Select whether or not to send e-mail using SMTP.	Off	×
POP3	Select whether or not to receive e-mail using POP3.	Off	×
RAW Port	Select whether or not to communicate using RAW Port.	On	●
LPD	Select whether or not to receive documents using LPD as the network protocol.	On	●
HTTP	Select whether or not to communicate using HTTP.	On	●

†. ●: The machine must be restarted after the setting is changed.
×: The machine does not need to be restarted after the setting is changed.

1 In the TCP/IP Settings menu, press △ or ▽ to select `Protocol Detail`.

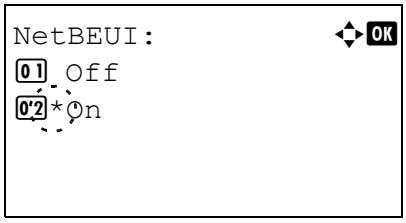
2 Press **[OK]**. The `Protocol Detail` menu screen appears.



3 Press △ or ▽ to select the item for which you want to make settings.

4 Press **[OK]**. This displays the setting screen for the item selected in step 3.

The screen shown is the one when `NetBEUI` is selected.

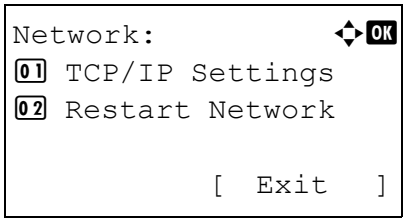


5 Press △ or ▽ to select `On` or `Off`.

6 Press **[OK]**. The Protocol Detail menu reappears.

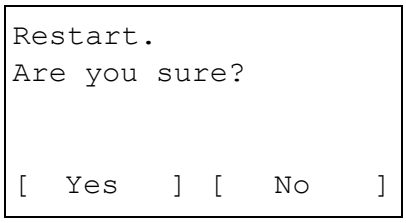
Restart Network (Restarting the network card)

After all network related settings have been done, restart the network card of the device. This is mandatory to make the settings effective.



1 In the Network menu, press △ or ▽ to select `Restart Network`.

2 Press **[OK]**. A confirmation screen appears.



3 Press `[Yes]` (**[Left Select]**). The message `Restarting...` appears and the network is restarted.

Pressing `[No]` (**[Right Select]**) returns to the Network menu without restarting the network.

Optional Network (Optional Network settings)

This selects the settings for the optional network interface kit (IB-50) or wireless network interface kit (IB-51).

Note This is only displayed when a network interface kit (IB-50) or wireless network interface kit (IB-51) is installed as an option.

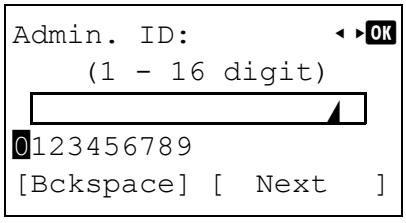
The options available in the Optional Network settings are as follows:

- Basic (Basic settings for the optional network interface kit)
- Communication (Select the network interface to use)

Note Check with your network administrator when selecting the network setting. After all network related settings have been done, restart the network. Refer to *Restart Network (Restarting the optional network interface kit) on page 4-77*. This is mandatory to make the settings effective!

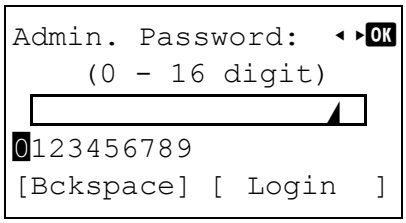
When Embedded Web Server RX is used, network parameters and security settings can be conveniently changed and checked from your PC. For more information, refer to the *Embedded Web Server RX User Guide*.

1. Press **[MENU]**.
2. Press △ or ▽ to select `Optional Network`.
3. Press **[OK]**. The `Admin. ID` screen appears.



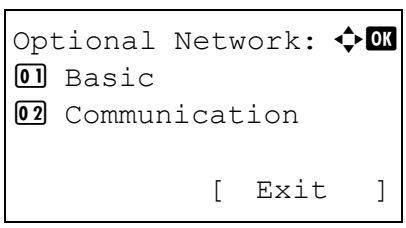
4. Enter the administrator ID. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

   You can go back one character by pressing `[Bckspace]` (**[Left Select]**).
5. Press `[Next]` (**[Right Select]**). The `Admin. Password` screen appears.



6. Enter the administrator password. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

   You can go back one character by pressing `[Bckspace]` (**[Left Select]**).
7. Press `[Login]` (**[Right Select]**). If the entered ID and password are correct, the Optional Network menu screen appears. If the entered ID and password are incorrect, the `Admin. ID` menu screen reappears. (You are returned to step 3.)

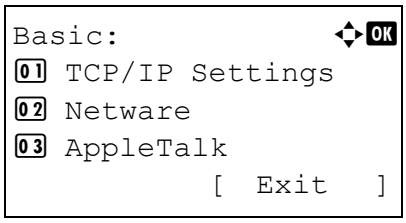


Basic (Basic settings for the optional network interface kit)

This selects the basic settings for the optional network interface kit (IB-50) or optional wireless network interface kit (IB-51) network.

1 In the Optional Network menu, press △ or ▽ to select `Basic`.

2 Press **[OK]**. The `Basic` menu screen appears.



The following operations are possible:

- TCP/IP Settings (TCP/IP Settings for the optional network interface kit)
- Netware (NetWare setting)
- AppleTalk (AppleTalk setting)
- IPSec (IPSec setting)
- LAN Interface (LAN Interface setting)
- MACAddressFilter (MAC address filtering setting)
- Restart Network (Restarting the optional network interface kit)

TCP/IP Settings (TCP/IP Settings for the optional network interface kit)

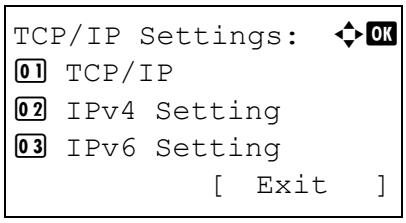
This selects the TCP/IP settings.

The options available in the TCP/IP Settings are as follows:

- TCP/IP (Enable/Disable TCP/IP)
- IPv4 Setting (TCP/IP IPv4 settings)
- IPv6 Setting (TCP/IP IPv6 settings)

1 In the Basic menu, press △ or ▽ to select `TCP/IP Settings`.

2 Press **[OK]**. The `TCP/IP Settings` menu screen appears.



TCP/IP (Enable/Disable TCP/IP)

This specified whether TCP/IP is used.
The method for setting is the same as for the standard Network settings. For details, refer to *TCP/IP (Enable/Disable TCP/IP) on page 4-65*.

IPv4 Setting (TCP/IP IPv4 settings)

This selects the settings for TCP/IP (IPv4). The method for setting is the same as for the standard Network settings. For details, refer to *IPv4 Setting (TCP/IP IPv4 settings) on page 4-65*.

IPv6 Setting (TCP/IP IPv6 settings)

This selects the settings for TCP/IP (IPv6). The method for setting is the same as for the standard Network settings. For details, refer to *IPv6 Setting (TCP/IP IPv6 settings) on page 4-69*.

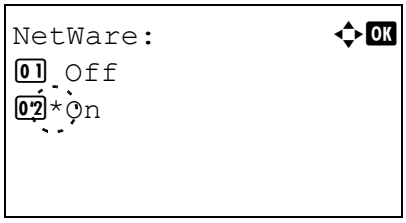
Netware (NetWare setting)

NetWare is a PC-based network operating system specifically for servers. NetWare is a client-server system that operates by installing the NetWare OS on the server and dedicated client modules (NetWare clients) on the client machines (running MS-DOS, OS/2, Windows, etc.). The basic network layer protocol used is NetWare's own IPX (Internetwork Packet eXchange)/SPX (Sequenced Packet eXchange), but the system also supports TCP/IP.

The feature of the NetWare OS is that it is specifically for servers, unlike general-purpose operating systems such as Windows NT and UNIX. Only the minimum required for server operation can be performed from the NetWare OS console on the server. Server and file management is basically carried out using management tools from the clients. Also, all drivers and protocol stacks are in the form of modules called NetWare Loadable Modules (NLMs), and the ability of NLMs to load and unload flexibly and dynamically is a major advantage of this system.

1 In the Basic menu, press △ or ▽ to select `Netware`.

2 Press **[OK]**. The `Netware` screen appears.



3 Press △ or ▽ to select whether NetWare is enabled.

4 Press **[OK]**. The NetWare setting is set and the Basic menu reappears.

AppleTalk (AppleTalk setting)

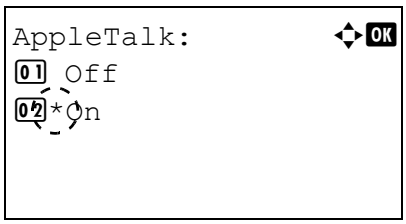
AppleTalk is a communications protocol used primarily on Macintosh computers and also refers to the Mac OS network functions.

AppleTalk assigns 24-bit network addresses (a 16-bit network section and an 8-bit node address) that are used to identify devices (computers, printers, etc.) on the network.

When the power is turned on, a broadcast signal is sent out onto the network and the addresses and machine names are automatically assigned. The default setting is `On`.

1 In the Basic menu, press △ or ▽ to select `AppleTalk`.

2 Press **[OK]**. The `AppleTalk` screen appears.



3 Press △ or ▽ to select whether AppleTalk is enabled.

4 Press **[OK]**. The AppleTalk setting is set and the Basic menu reappears.

IPSec (IPSec setting)

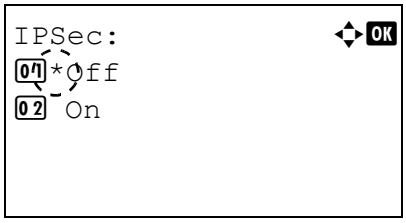
IPSec (IP Security Protocol) is a security protocol adopted as the standard by the IETF for authentication and encryption in the third network layer (IP layer).

It can be used with both IPv4 and IPv6.

Note IPv4 uses 32-bit IP addresses and IPv6 uses 128-bit IP addresses.

1 In the Basic menu, press △ or ▽ to select `IPSec`.

2 Press **[OK]**. The `IPSec` screen appears.



3 Press △ or ▽ to select whether IPSec is enabled.

4 Press **[OK]**. The IPSec setting is set and the Basic menu reappears.

LAN Interface (LAN Interface setting)

Specify the settings for the LAN interface to be used. The default setting is `Auto`.

Note `LAN Interface` is only displayed when the optional network interface kit (IB-50) is installed.

1 In the Basic menu, press △ or ▽ to select LAN Interface.

2 Press **[OK]**. The `LAN Interface` screen appears.

The available LAN Interface are as follows:

`Auto`

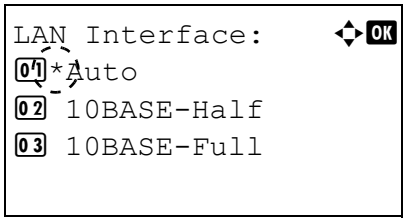
`10BASE-Half`

`10BASE-Full`

`100BASE-Half`

`100BASE-Full`

`1000BASE-T`



3 Press △ or ▽ to select the desired LAN Interface.

4 Press **[OK]**. The LAN Interface is set and the Basic menu reappears.

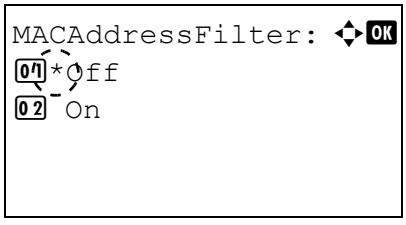
MACAddressFilter (MAC address filtering setting)

This sets whether or not to enable MAC address filtering.

Note The detailed settings for MAC address filtering are selected using the optional network interface kit utility software.

1 In the Basic menu, press △ or ▽ to select `MACAddressFilter`.

2 Press **[OK]**. The `MACAddressFilter` screen appears.



3 Press △ or ▽ to select whether MAC address filtering is enabled.

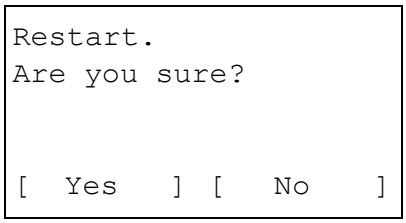
4 Press **[OK]**. The MAC address filtering setting is set and the Basic menu reappears.

Restart Network (Restarting the optional network interface kit)

After all network related settings have been done, restart the network card of the device. This is mandatory to make the settings effective.

1 In the Basic menu, press △ or ▽ to select `Restart Network`.

2 Press **[OK]**. A confirmation screen appears.



3 Press `[Yes]` (**[Left Select]**). The message `Restarting...` appears and the network is restarted.

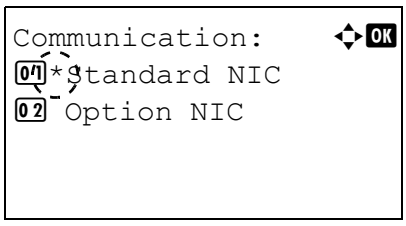
Pressing `[No]` (**[Right Select]**) returns to the Basic menu without restarting the network.

Communication (Select the network interface to use)

Select the interface to be used for network connection.

1 In the Optional Network menu, press △ or ▽ to select `Communication`.

2 Press **[OK]**. The `Communication` screen appears.



3 Press △ or ▽ to select the desired NIC.
`Standard NIC`: standard network interface of the printer
`Option NIC`: optional network interface kit

4 Press **[OK]**. The NIC is set and the Optional Network menu reappears.

Device Common (Selecting/Setting the common device)

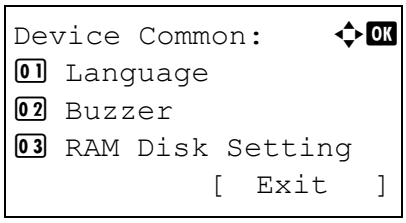
Selects/sets all the functions in this printer.

The options available in Device Common are as follows:

- Language (Selecting the message language)
- Date Setting (Date and time settings)
- Buzzer (Alarm (Buzzer) setting)
- RAM Disk Setting (Using the RAM disk)
- Format SSD
- Display Bright. (Display brightness setting)
- Error Handling (Error detection setting)
- Timer Setting
- TonerAlert Level (Setting for the alert level for toner addition)

IMPORTANT `Format SSD` appears if an optional SSD is inserted and not formatted in the machine.

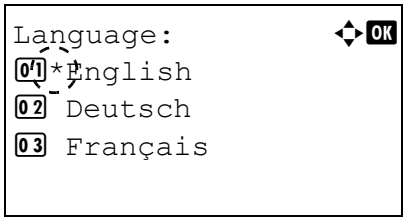
1. Press **[MENU]**.
2. Press △ or ▽ to select `Device Common`.
3. Press **[OK]**. The `Device Common` menu appears showing a list of available options.



Language (Selecting the message language)

You can select the language of the message display by following the procedure given below. You can optionally download messages in other languages. Contact your service technician for information.

1. In the Device Common menu, press △ or ▽ to select `Language`.
2. Press **[OK]**. The `Language` screen appears showing the list of languages.



The available languages are as follows:

`English`
`Deutsch`
`Français`
`Español`
`Italiano`
`Nederlands`
`Русский`
`Português`

The optional languages are as follows:

Optional language	Message display
Turkish	Türkçe
Greek	Ελληνικά
Polish	Polski
Czech	Čech
Hungarian	Magyar
Finnish	Suomi
Hebrew	אנגלית
Arabic	أربيك
Swedish	Svensk
Danish	Dansk
Norwegian	Norsk
Romanian	Român

If you are using one of the optional languages, it is displayed in place of `Português`.

3 Press △ or ▽ to select the desired language.

4 Press **[OK]**. The language is set and the Device Common menu reappears.

Date Setting (Date and time settings)

Set the date and time.

IMPORTANT To change the Date Setting, the administrator's Login User Name and Login Password must be entered. For details of the administrator settings, refer to *Administrator (Administrator settings) on page 4-116*.

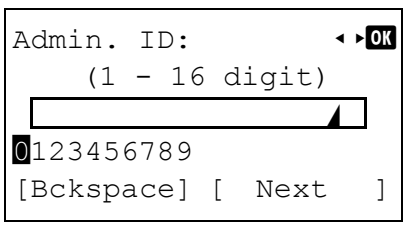
If you change the date/time while using an application, you will no longer be able to use the application.

The date and time settings consist of the following items:

- Date (date setting)
- Time (time setting)
- Date Format (date format selection)
- Time Zone (time difference setting)
- Summer Time (summer time setting)

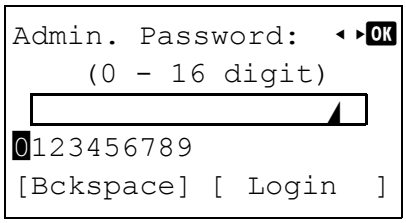
1 In the `Device Common` menu, press △ or ▽ to select `Date Setting`.

2 Press **[OK]**. The `Admin. ID` screen appears.



3 Enter the administrator ID. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

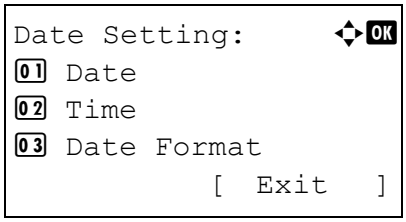
You can go back one character by pressing [Bckspace] (**[Left Select]**).



4 Press [Next] (**[Right Select]**). The Admin. Password screen appears.

5 Enter the administrator password. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

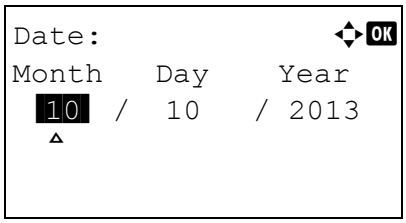
You can go back one character by pressing [Bckspace] (**[Left Select]**).



6 Press [Login] (**[Right Select]**). If the entered ID and password are correct, the Date Setting menu screen appears. If the entered ID and password are incorrect, the Admin. ID menu screen reappears. (You are returned to step 2.)

Date (date setting)

1 In the Date Setting menu, press △ or ▽ to select Date.



2 Press **[OK]**. The Date screen appears.

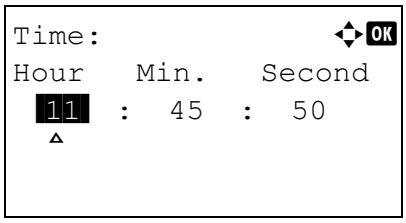
3 Use the numeric keys or press △ or ▽ to set the year, month, and day.

Use ◁ and ▷ to move the cursor right and left.

4 Press **[OK]**. The date is set and the Date Setting menu reappears.

Time (time setting)

1 In the Date Setting menu, press △ or ▽ to select Time.



2 Press **[OK]**. The Time screen appears.

3 Use the numeric keys or △ or ▽ to set the hour, minute, and second.

Use ◁ and ▷ to move the cursor right and left.

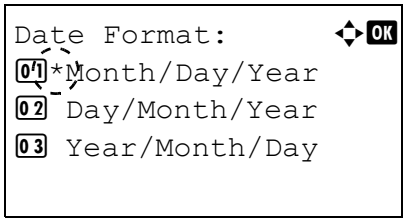
4 Press **[OK]**. The time is set and the Date Setting menu reappears.

Date Format (date format selection)

One of three formats can be selected for the date format.

1 In the Date Setting menu, press △ or ▽ to select `Date Format`.

2 Press **[OK]**. The `Date Format` screen appears.



3 Press △ or ▽ to select the desired date format.

The following date formats can be selected:

`Month/Day/Year`

`Day/Month/Year`

`Year/Month/Day`

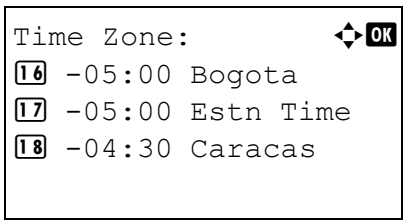
4 Press **[OK]**. The date format is set and the Date Setting menu reappears.

Time Zone (time difference setting)

Set the time difference from GMT.

1 In the Date Setting menu, press △ or ▽ to select `Time Zone`.

2 Press **[OK]**. The `Time Zone` screen appears.



3 Press △ or ▽ to select the location.

4 Press **[OK]**. The time zone is set and the Date Setting menu reappears.

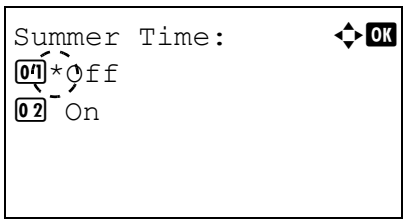
Note If you select a region that does not utilize summer time, the summer time setting will not appear.

Summer Time (summer time setting)

Set summer time.

1 In the Date Setting menu, press △ or ▽ to select `Summer Time`.

2 Press **[OK]**. The `Summer Time` screen appears.



3 Press △ or ▽ to select whether the summer time is enabled.

4 Press **[OK]**. The summer time is set and the Date Setting menu reappears.

Buzzer (Alarm (Buzzer) setting)

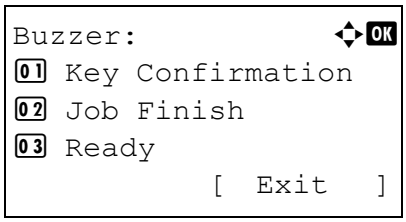
This function uses tones to notify the user of printer operations and the printer status. This setting is useful, for example, when the printer is located some distance from the user.

The options available in Buzzer are as follows:

- Key Confirmation (Key confirmation tone setting)
- Job Finish (Job completed tone setting)
- Ready (Preparation completed tone setting)
- Error (Error tone setting)

1 In the Device Common menu, press △ or ▽ to select `Buzzer`.

2 Press **[OK]**. The `Buzzer` screen appears.

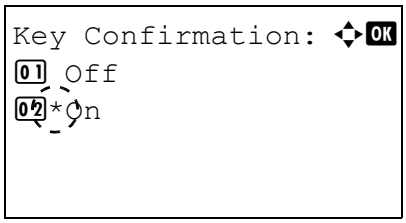


Key Confirmation (Key confirmation tone setting)

When `On` is selected in this setting, a tone sounds each time a key is used. The default setting is `On`.

1 In the Buzzer menu screen, press △ or ▽ to select `Key Confirmation`.

2 Press **[OK]**. The `Key Confirmation` screen appears.



3 Press △ or ▽ to select whether the key confirmation tone is enabled.

4 Press **[OK]**. The key confirmation tone setting is set and the Buzzer menu reappears.

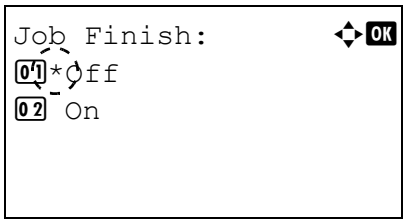
Job Finish (Job completed tone setting)

When `On` is selected in this setting, a tone sounds when printing ends.

The default setting is `Off`.

1 In the Buzzer menu screen, press △ or ▽ to select `Job Finish`.

2 Press **[OK]**. The `Job Finish` screen appears.



3 Press △ or ▽ to select whether the printing completed tone is enabled.

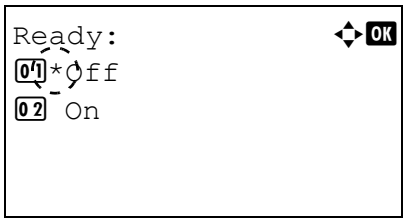
4 Press **[OK]**. The printing completed tone setting is set and the Buzzer menu reappears.

Ready (Preparation completed tone setting)

When `On` is selected in this setting, a tone sounds when print preparation has been completed. The default setting is `Off`.

1 In the Buzzer menu screen, press △ or ▽ to select `Ready`.

2 Press **[OK]**. The `Ready` screen appears.

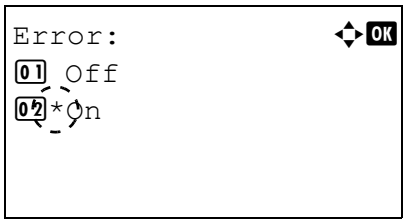


3 Press △ or ▽ to select whether the preparation completed tone is enabled.

4 Press **[OK]**. The preparation completed tone setting is set and the Buzzer menu reappears.

Error (Error tone setting)

When On is selected in this setting, a tone sounds when a problem such as running out of paper or a paper jam occurs during printing. The default setting is On.



1 In the Buzzer menu screen, press △ or ▽ to select Error.

2 Press **[OK]**. The Error screen appears.

3 Press △ or ▽ to select whether the warning tone is enabled.

4 Press **[OK]**. The warning tone setting is set and the Buzzer menu reappears.

RAM Disk Setting (Using the RAM disk)

The RAM disk is a memory space shared within the printer memory that can temporarily store print jobs. The stored print job can then be used to print multiple copies of the job reducing the total amount of time required to print the whole job. It acts similar to the SSD except that the data is effective only when the printer is powered up.

To use the RAM disk, activate and enter the desired size of the RAM disk in the manner described below. The maximum RAM disk size can be calculated as follows:

When the RAM disk is activated = The maximum RAM disk size is 32 MB (when no options are attached)

When the optional memory is installed = The maximum RAM disk size is 1/2 of the total optional memory installed

By default, the RAM disk is set to `Off`.

To activate RAM disk in the printer's memory, first you must set the RAM disk mode to `On` and set the desired data size for the RAM disk as described in the following section. This allows you to perform the following operations on the RAM disk.

Note The printer supports two types of storage device; optional SSD, and RAM disk. The optional SSD are installed into the dedicated slots of the printer. The RAM disk is an allocated part of the printer's memory.

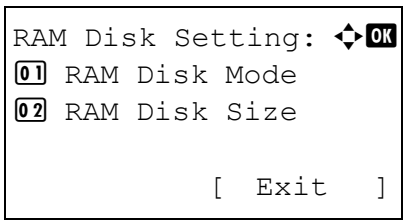
IMPORTANT The RAM disk can not be used when an optional SSD is installed.
The RAM disk stores data only temporarily. When the printer is reset or turned off, the stored data will be erased.
The RAM disk allows some Job Box functions to be used.
The RAM disk is allocated from the printer memory available to users. If the size of the RAM disk is set too large, the printing speed may decrease or the memory may become insufficient.

The options available in RAM Disk Setting are as follows:

- RAM Disk Mode (Setting the RAM disk)
- RAM Disk Size (RAM disk size setting)

1 In the Device Common menu, press △ or ▽ to select `RAM Disk Setting`.

2 Press **[OK]**. The `RAM Disk Setting` menu screen appears.

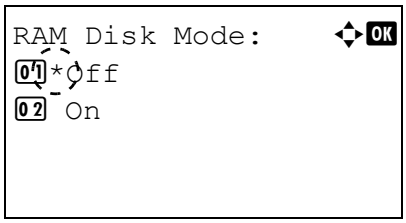


RAM Disk Mode (Setting the RAM disk)

Selecting `On` in this setting enables the RAM disk.

1 In the RAM Disk Setting menu, press △ or ▽ to select `RAM Disk Mode`.

2 Press **[OK]**. The `RAM Disk Mode` screen appears.



3 Press △ or ▽ to select whether the RAM disk is enabled.

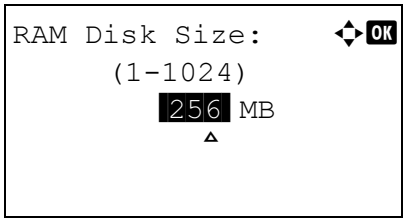
4 Press **[OK]**. The RAM disk setting is set and the RAM Disk Setting menu reappears.

RAM Disk Size (RAM disk size setting)

Use this procedure to set the amount of memory used for the RAM disk.

1 In the RAM Disk Setting menu, press △ or ▽ to select `RAM Disk Size`.

2 Press **[OK]**. The `RAM Disk Size` screen appears.



3 Use the arrow keys to set the amount of memory to be used as a RAM disk.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

The maximum amount of memory that can be set varies depending on the total amount of memory in the printer.

4 Press **[OK]**. The amount of memory used as a RAM disk is stored and the RAM Disk Setting menu reappears.

When you have completed the setting, exit the menu and restart the printer. The selected setting is valid after the printer starts up again.

Format SSD

When an optional SSD is inserted into the printer for the first time, it must be formatted before use.

This menu is displayed only when the optional SSD is installed on the printer.

Note If the optional SSD is installed in the printer, the Job Box will be available.

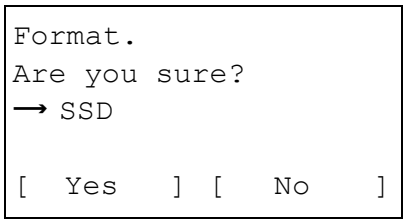
Note Formatting will destroy any existing data on a storage device including a used SSD.
Formatting of the SSD must be executed from the printer.

Use the procedure below to format the SSD.

When a new SSD is inserted in the printer's slot, `Format SSD` will appear on the message display.

1 In the Device Common menu, press △ or ▽ to select `Format SSD`.

2 Press **[OK]**. A confirmation screen appears.



3 Press `[Yes]` (**[Left Select]**). The `Formatting SSD.` screen appears and SSD formatting begins. Once the formatting ends, the standby screen reappears.

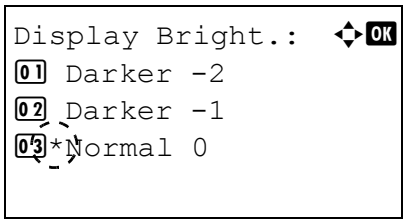
Pressing `[No]` (**[Right Select]**) returns you to the Device Common menu without formatting the SSD.

Display Bright. (Display brightness setting)

Sets the brightness of the message display.

1 In the Device Common menu, press △ or ▽ to select `Display Bright.`.

2 Press **[OK]**. The `Display Bright.` screen appears showing the available brightness settings.



The list shows the following brightness settings:

`Darker -2`

`Darker -1`

`Normal 0`

`Lighter +1`

`Lighter +2`

3 Press △ or ▽ to select the desired brightness.

4 Press **[OK]**. The brightness is set and the Device Common menu reappears.

Error Handling (Error detection setting)

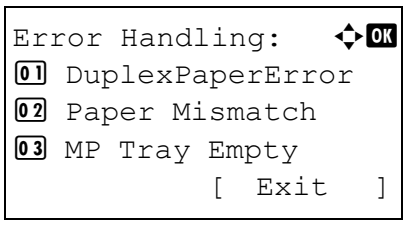
This specifies the settings for the detection methods used for duplex printing errors and for paper size and paper type errors when the paper source is fixed.

The options available in Error Handling are as follows:

- DuplexPaperError (Duplex printing error detection setting)
- Paper Mismatch (Detection settings for paper size/type errors when the paper source is fixed)
- MP Tray Empty (Warning when the MP tray is empty)

1 In the Device Common menu, press △ or ▽ to select `Error Handling`.

2 Press **[OK]**. The `Error Handling` menu screen appears.



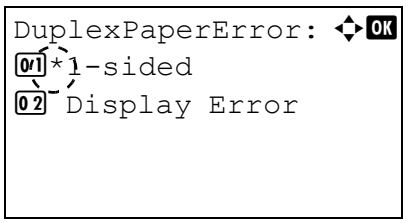
DuplexPaperError (Duplex printing error detection setting)

If the error detection setting for duplex printing has been turned `Display Error`, and you attempt to print onto a paper size and paper type that cannot be used for duplex printing, the `Duplex disabled` error message will be displayed and printing will stop.

Display Error	• To print onto one-side of the paper only when this message is displayed, press **[OK]**. • Press **[Cancel]** to cancel the printing itself.
1-sided	• To print onto one-side of the paper.

1 In the Error Handling menu, press △ or ▽ to select `DuplexPaperError`.

2 Press **[OK]**. The `DuplexPaperError` screen appears.



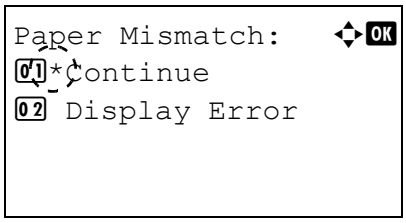
3 Press △ or ▽ to select the setting for handling duplex paper errors.

4 Press **[OK]**. The handling of duplex paper errors is set and the `Error Handling` menu screen reappears.

Paper Mismatch (Detection settings for paper size/type errors when the paper source is fixed)

Select `Continue` in this setting if you want to continue printing even if the paper size or type you specified is different from the fixed paper source, or select `Display Error` to have the paper feed error displayed.

1. In the Error Handling menu, press △ or ▽ to select `Paper Mismatch`.
2. Press **[OK]**. The `Paper Mismatch` screen appears.



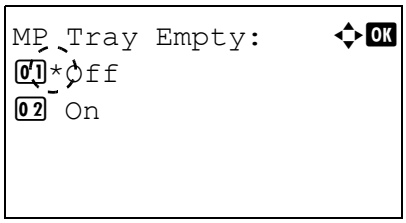
3. Press △ or ▽ to select the setting for handling paper mismatch errors.
4. Press **[OK]**. The handling of paper mismatch errors is set and the `Error Handling` menu screen reappears.

MP Tray Empty (Warning when the MP tray is empty)

Turn this setting to `On` if you want the error displayed when the MP tray is configured as the default paper source, and there is no paper in the MP tray, or turn it to `Off` not to have the error displayed.

The setting `On` enables the paper-empty message to display when the MP tray is empty.

1. In the Error Handling menu, press △ or ▽ to select `MP Tray Empty`.
2. Press **[OK]**. The `MP Tray Empty` screen appears.



3. Press △ or ▽ to select the setting for the paper-empty message to display.
4. Press **[OK]**. The display of MP Tray Empty is set and the `Error Handling` menu screen reappears.

Timer Setting

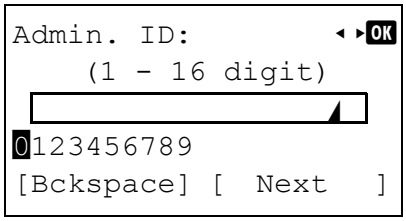
This specifies timer-related settings such as the automatic form-feed timeout and the timeout settings for Auto Sleep.

The options available in Timer Setting are as follows:

- Auto Panel Reset (Auto panel reset setting)
- PanelReset Timer (Setting the panel reset timer)
- Low Power Timer (Low Power Mode timer timeout time)
- Sleep Level Set. (Sleep level setting)
- Sleep Timer (Sleep timer timeout time)
- Auto Err. Clear (Auto error clear setting)
- Err. Clear Timer (Setting the error clear time)
- FormFeed TimeOut (Automatic form feed timeout setting)

1 In the Device Common menu, press △ or ▽ to select `Timer Setting`.

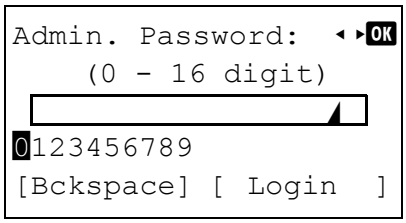
2 Press **[OK]**. The `Admin. ID` screen appears.



3 Enter the administrator ID. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

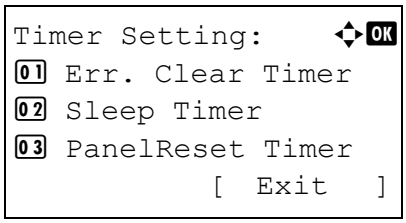
4 Press `[Next]` (**[Right Select]**). The `Admin. Password` screen appears.



5 Enter the administrator password. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

6 Press `[Login]` (**[Right Select]**). If the entered ID and password are correct, the Timer Setting menu screen appears. If the entered ID and password are incorrect, the `Admin. ID` menu screen reappears. (You are returned to step 3.)



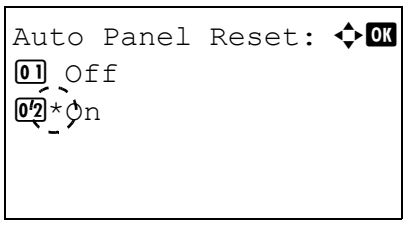
Auto Panel Reset (Auto panel reset setting)

The Auto Panel Reset function automatically restores the default settings if the panel is not used for a set time. The default setting is `On`.

For setting the time until the panel is automatically reset, refer to *PanelReset Timer (Setting the panel reset timer) on page 4-91*.

1 In the Timer Setting menu, press △ or ▽ to select `Auto Panel Reset`.

2 Press **[OK]**. The `Auto Panel Reset` screen appears.



3 Press △ or ▽ to select whether Auto Panel Reset is enabled.

4 Press **[OK]**. The Auto Panel Reset setting is set and the Timer Setting menu reappears.

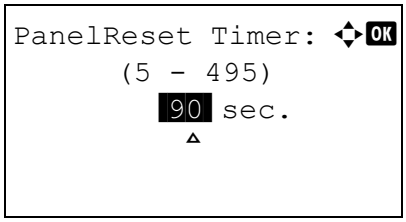
PanelReset Timer (Setting the panel reset timer)

When `Auto Panel Reset` is set to `On`, this sets the time until the panel is automatically reset after the user stops using the panel.

The default setting is `90` seconds.

1 In the Timer Setting menu, press △ or ▽ to select `PanelReset Timer`.

2 Press **[OK]**. The `PanelReset Timer` screen appears.



3 Use the arrow keys to set the panel reset time.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

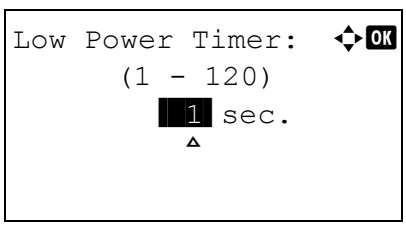
4 Press **[OK]**. The panel reset time setting is stored and the Timer Setting menu reappears.

Low Power Timer (Low Power Mode timer timeout time)

You can adjust the length of time the printer waits before entering Low Power Mode in the absence of a print job. The printer reverts to normal operation mode when the printer receives a print job or **[OK]** is pressed on the operation panel. The default time is 1 minute.

1 In the Timer Setting menu, press △ or ▽ to select `Low Power Timer`.

2 Press **[OK]**. The `Low Power Timer` screen appears.



3 Use the arrow keys to set the low power mode.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

The timer can be set between 1 and 120 min (for Europe) or 1 and 240 min (except for Europe).

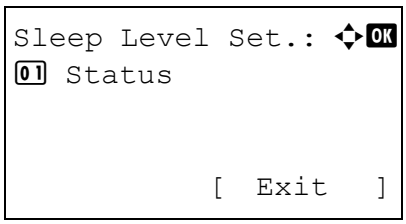
4 Press **[OK]**. The low power time setting is stored and the Timer Setting menu reappears.

Sleep Level Set. (Sleep level setting)

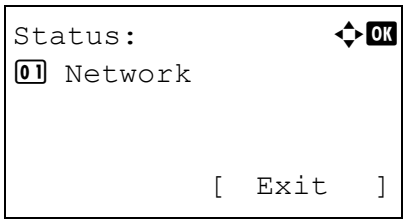
For Europe

This sets whether or not the machine enters sleep mode when connected to a network.

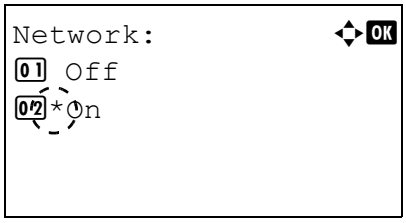
1 In the Timer Setting menu, press △ or ▽ to select `Sleep Level Set.`.



2 Press **[OK]**. The `Sleep Level Set.` menu screen appears.



3 Press **[OK]**. The `Status` menu screen appears.



4 Press **[OK]**. The `Network` screen appears.

5 Press △ or ▽ to select whether or not to use Energy Saver mode. Select `On` to set the Energy Saver mode.

6 Press **[OK]**. Set the Energy Saver mode and `Status` menu reappears

Except for Europe

Select the sleep level.

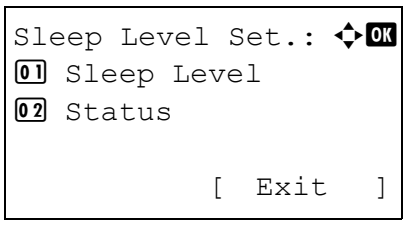
The options available in Sleep Level Set. are as follows:

- Sleep Level (Sleep level setting)
- Network (Setting for entering energy-saving mode when connected to a network)

Note `Network` is only displayed when `Sleep Level` is set to `Energy Saver`.

1 In the Timer Setting menu, press △ or ▽ to select Sleep Level Set..

2 Press **[OK]**. The Sleep Level Set. menu screen appears.



Sleep Level (Sleep level setting)

There are two sleep modes with different levels of sleep: Quick Recovery and Energy Saver.

Quick Recovery Mode: The recovery from the sleep mode is faster than when using Energy Saver mode.

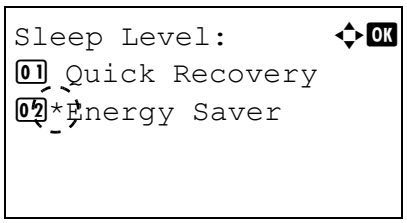
Energy Saver Mode: This makes it possible to reduce energy consumption even further than with Quick Recovery mode. With Energy Saver mode, you can set whether to enable the Energy Saver mode for each separate function.

Note For information on the Quick Recovery mode and Energy Saver mode, refer to *Energy Saver Function on page 2-26*.

Sleep Level Set. menu is not displayed when the optional network interface kit (IB-50) or wireless network interface kit (IB-51) has been installed.

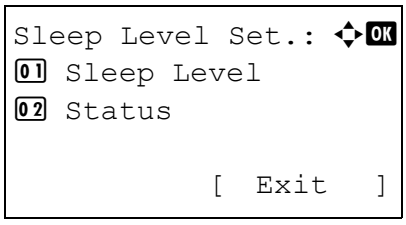
1 In the Sleep Level Set. menu, press △ or ▽ to select Sleep Level.

2 Press **[OK]**. The Sleep Level screen appears.



3 Press △ or ▽ to select Quick Recovery or Energy Saver.

4 Press **[OK]**. The sleep level is set and the Sleep Level Set. menu reappears.



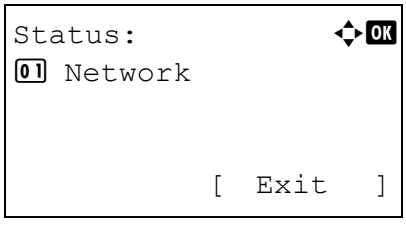
Network (Setting for entering energy-saving mode when connected to a network)

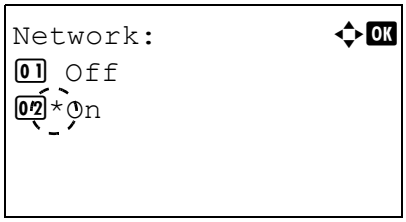
This sets whether or not the machine enters Energy Saver mode when connected to a network.

1 In the Sleep Level Set. menu, press △ or ▽ to select Status.

Note Status is only displayed when Energy Saver is set.

2 Press **[OK]**. The Status menu screen appears.





3 Press **[OK]**. The Network screen appears.

4 Press △ or ▽ to select whether or not to use Energy Saver mode. Select On to set the Energy Saver mode.

5 Press **[OK]**. Set the Energy Saver mode and Status menu reappears.

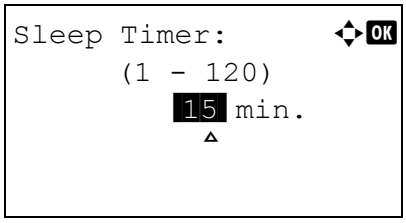
Sleep Timer (Sleep timer timeout time)

If Auto Sleep is set to On, you can adjust the length of time the printer waits before entering Auto Sleep in the absence of data. The printer reverts to normal operation mode when the printer receives a print job, **[OK]** is pressed or one of the exterior covers is opened. The default time is 15 minutes.

Note Color calibration is automatically executed before the printer reverts to normal operation mode.

1 In the Timer Setting menu, press △ or ▽ to select Sleep Timer.

2 Press **[OK]**. The Sleep Timer screen appears.



3 Use the arrow keys to set the sleep time.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

The timer can be set between 1 and 120 min (for Europe) or 1 and 240 min (except for Europe).

4 Press **[OK]**. The sleep time setting is stored and the Timer Setting menu reappears.

Auto Err. Clear (Auto error clear setting)

If an error that still allows you to continue printing occurs, the next received data is automatically printed after a set period of time elapses.

For example, if the printer is shared over a network as a network printer and one person causes one of the above errors, after the set period of time elapses, the data sent from the next person is printed. The default setting is Off (Auto Error Clear disabled).

The auto clear errors are:

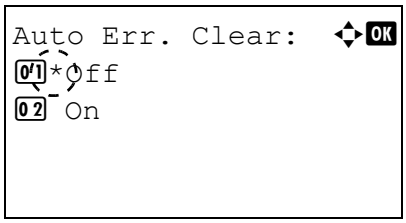
- Memory is full.
- Print overrun.
- KPDL error.
- SSD error.

- RAM disk error.
- Incorrect account ID.
- Account error.
- Cannot duplex print on this paper.
- Job Accounting restriction exceeded.
- No multi copies.
- USB memory error.
- Restricted by Job Accounting.
- Job not stored.

For the procedure for setting the automatic error recovery time, refer to *Err. Clear Timer (Setting the error clear time) on page 4-95*.

1 In the Timer Setting menu, press △ or ▽ to select Auto Err. Clear.

2 Press **[OK]**. The Auto Err. Clear screen appears.



3 Press △ or ▽ to select whether automatic error recovery is enabled.

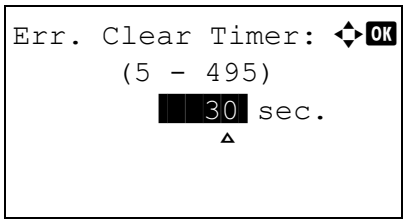
4 Press **[OK]**. The automatic error recovery setting is set and the Timer Setting menu reappears.

Err. Clear Timer (Setting the error clear time)

If Auto Err. Clear is set to On and a non-fatal error (an error that allows printing to continue) occurs, this setting specifies the time until the error is recovered and printing resumes. The default setting is 30 seconds.

1 In the Timer Setting menu, press △ or ▽ to select Err. Clear Timer.

2 Press **[OK]**. The Err. Clear Timer screen appears.



3 Use the arrow keys to set the recovery time.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

4 Press **[OK]**. The recovery time setting is stored and the Timer Setting menu reappears.

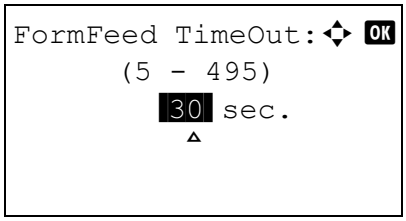
FormFeed TimeOut (Automatic form feed timeout setting)

If the printer receives no data for a set period, it times out and releases the current interface. It then prints whatever data it has in its buffer and feeds out the printed page.

The default setting is `30` seconds.

1 In the Timer Setting menu, press △ or ▽ to select `FormFeed TimeOut`.

2 Press **[OK]**. The `FormFeed TimeOut` screen appears.



3 Use the arrow keys to set the form feed timeout delay.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

Use ◁ and ▷ to move the cursor right and left.

4 Press **[OK]**. The form feed timeout setting is stored and the Timer Setting menu reappears.

TonerAlert Level (Setting for the alert level for toner addition)

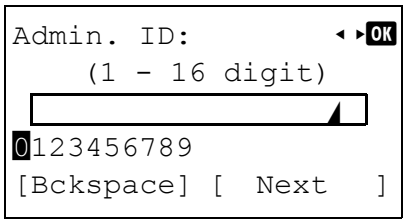
This sets the toner addition alert level displayed on the status monitor.

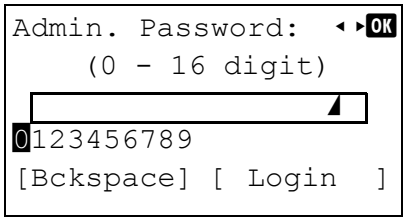
The options available in TonerAlert Level are as follows:

- Off/On
- TonerAlert Level (Setting for the alert level for toner addition)

1 In the `Device Common` menu, press △ or ▽ to select `TonerAlert Level`.

2 Press **[OK]**. The `Admin. ID` screen appears.





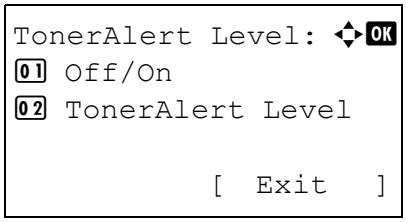
3 Enter the administrator ID. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

4 Press `[Next]` (**[Right Select]**). The `Admin. Password` screen appears.

5 Enter the administrator password. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).



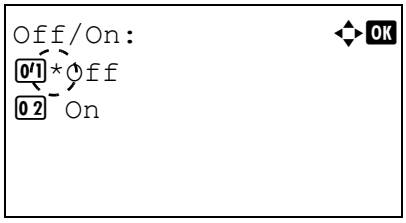
6 Press [Login] (**[Right Select]**). If the entered ID and password are correct, the TonerAlert Level menu screen appears. If the entered ID and password are incorrect, the Admin. ID menu screen reappears. (You are returned to step 2.)

Off/On (Setting toner addition notifications)

Select whether Toner Alert Level is enabled.

1 In the TonerAlert Level menu, press △ or ▽ to select Off/On.

2 Press **[OK]**. The Off/On screen appears.



3 Press △ or ▽ to select whether Toner Alert Level is enabled.

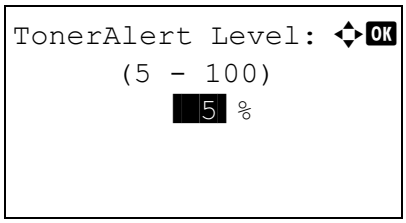
4 Press **[OK]**. The TonerAlert Level screen appears.

TonerAlert Level (Setting for the alert level for toner addition)

This sets the level at which toner addition alerts will be displayed.

1 In the TonerAlert Level menu, press △ or ▽ to select TonerAlert Level.

2 Press **[OK]**. The TonerAlert Level screen appears.



3 Use the numeric keys or press △ or ▽ to set the level at which an alert will be displayed. The setting is possible between 5 and 100%.

4 Press **[OK]**. The Toner Alert Level is set and the TonerAlert Level menu reappears.

Security (Security function setting)

The security functions can be set up to protect printer operation and the print data.

IMPORTANT To specify the Security function settings, you must enter an administrator ID and password. For information on how to set the administrator ID and password, refer to *Administrator (Administrator settings) on page 4-116*.

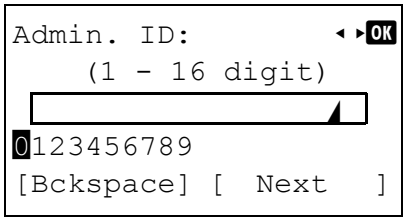
The options available in Security are as follows:

- Network Security (Network security setting)
- I/F Block Set. (External interface block setting)
- Security Level

1 Press **[MENU]**.

2 Press △ or ▽ to select `Security`.

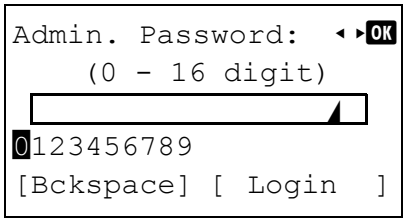
3 Press **[OK]**. The `Admin. ID` screen appears.



4 Enter the administrator ID. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

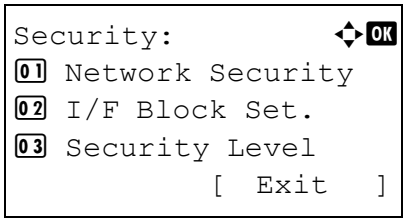
5 Press `[Next]` (**[Right Select]**). The `Admin. Password` screen appears.



6 Enter the administrator password. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

7 Press `[Login]` (**[Right Select]**). If the entered ID and password are correct, the TonerAlert Level menu screen appears. If the entered ID and password are incorrect, the `Admin. ID` menu screen reappears. (You are returned to step 3.)



Network Security (Network security setting)

Use this procedure to specify the security settings for each of the network protocols used.

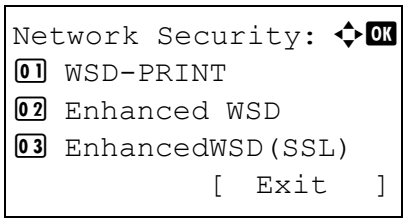
IMPORTANT Check with your network administrator when selecting network settings.

The options available in Network Security are as follows:

- WSD-PRINT (WSD-PRINT setting)
- Enhanced WSD (Enhanced WSD setting)
- EnhancedWSD(SSL) (Enhanced WSD (SSL) setting)
- IPP (IPP setting)
- SSL Setting (SSL Server setting)
- IPSec (IPSec setting)
- LAN Interface (LAN Interface setting)

1 In the Security menu, press △ or ▽ to select `Network Security`.

2 Press **[OK]**. The Network Security menu screen appears.

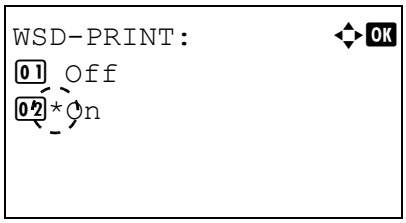


WSD-PRINT (WSD-PRINT setting)

Select whether or not to use WSD Print. The default setting is `On`.

1 In the Network Security menu, press △ or ▽ to select `WSD-PRINT`.

2 Press **[OK]**. The `WSD-PRINT` screen appears.



3 Press △ or ▽ to select whether WSD-PRINT is enabled.

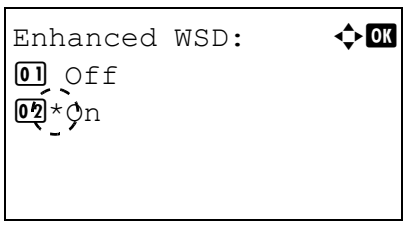
4 Press **[OK]**. The WSD-PRINT setting is set and the Network Security menu reappears.

Enhanced WSD (Enhanced WSD setting)

Set whether to use our proprietary web services. Network driver use this Enhanced WSD Web service. The default setting is `On`.

1 In the Network Security menu, press △ or ▽ to select `Enhanced WSD`.

2 Press **[OK]**. The `Enhanced WSD` screen appears.



3 Press △ or ▽ to select whether Enhanced WSD is enabled.

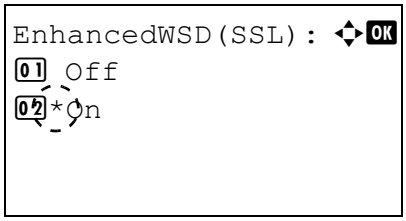
4 Press **[OK]**. The Enhanced WSD setting is set and the Network Security menu reappears.

EnhancedWSD(SSL) (Enhanced WSD (SSL) setting)

Set whether to use our proprietary web services over SSL. SSL must be set to `On` in *SSL (SSL Server setting) on page 4-101*. The default setting is `On`.

1 In the Network Security menu, press △ or ▽ to select `EnhancedWSD(SSL)`.

2 Press **[OK]**. The `EnhancedWSD(SSL)` screen appears.



3 Press △ or ▽ to select whether Enhanced WSD (SSL) is enabled.

4 Press **[OK]**. The Enhanced WSD (SSL) setting is set and the Network Security menu reappears.

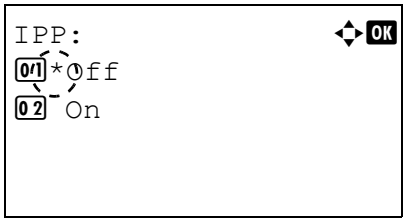
IPP (IPP setting)

IPP (Internet Printing Protocol) is a standard that uses TCP/IP networks such as the Internet to enable print jobs to be sent between remote computers and printers.

IPP is an extension of the HTTP protocol used to view websites and enables printing to be carried out via routers on printers in remote locations. It also supports the HTTP authentication mechanisms along with SSL server and client authentication as well as encryption. The default setting is `Off`.

1 In the Network Security menu, press △ or ▽ to select `IPP`.

2 Press **[OK]**. The `IPP` screen appears.



3 Press △ or ▽ to select whether IPP is enabled.

4 Press **[OK]**. The IPP setting is set and the Network Security menu reappears.

SSL Setting (SSL Server setting)

SSL (Secure Sockets Layer) refers to a protocol used to encrypt information sent and received over a network. SSL can currently be used to encrypt data such as the WWW or FTP files widely used on the Internet so that privacy-related information, credit card numbers, corporate secrets and other confidential information can be sent and received safely.

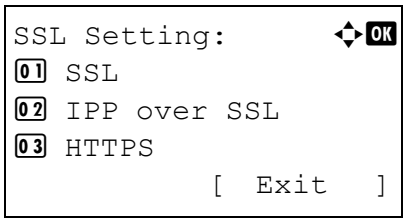
SSL servers use this protocol to authenticate servers and clients.

The options available in SSL Setting are as follows:

- SSL (SSL Server setting)
- IPP over SSL (SSL Server IPP over SSL setting)
- HTTPS (SSL Server HTTPS setting)

1 In the Network Security menu, press △ or ▽ to select `SSL Setting`.

2 Press **[OK]**. The `SSL Setting` menu screen appears.



SSL (SSL Server setting)

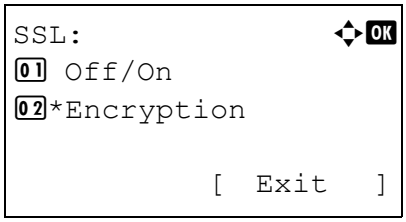
Select the SSL server settings.

The options available in SSL are as follows:

- Off/On (SSL operation setting)
- Encryption (Encryption setting)

1 In the SSL Setting menu, press △ or ▽ to select `SSL`.

2 Press **[OK]**. The `SSL` menu screen appears.

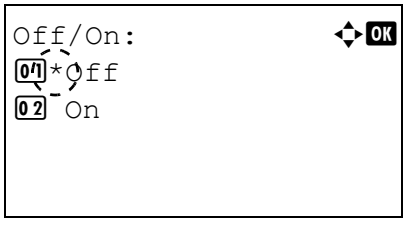


Off/On (SSL operation setting)

Select whether or not to use the SSL server. The default setting is `Off`.

1 In the SSL menu, press △ or ▽ to select `Off/On`.

2 Press **[OK]**. The `Off/On` screen appears.



3 Press △ or ▽ to select whether to use the SSL server.

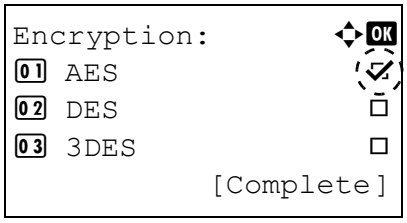
4 Press **[OK]**. The SSL server setting is set and the SSL menu reappears.

Encryption (Encryption setting)

Select the encryption method used on the SSL server.

1 In the SSL menu, press △ or ▽ to select `Encryption`.

2 Press **[OK]**. The `Encryption` screen appears.



3 Press △ or ▽ to move the cursor to the encryption method to be used and then press **[OK]**.

The options available in Encryption are as follows:

AES (SSL Server AES setting)
AES (Advanced Encryption Standard) was developed to replace DES as the standard encryption as the safety of DES has declined. AES is a block encryption system that uses 128-bit blocks and an SPN structure (a typical structure for repeated encryption) with three selectable key lengths of 128, 192 and 256 bits.

DES
DES (Data Encryption Standard) is a typical symmetric-key cryptographic algorithm that divides data in to 64-bit blocks and then encrypts each block using a 56-bit key.

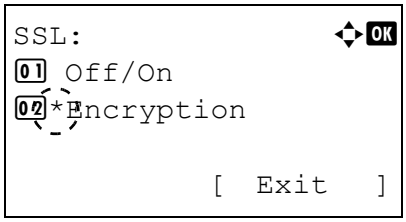
IMPORTANT Symmetric-key cryptography, because it uses the same key for both encryption and decryption, uses the same key in both directions when encrypted data is exchanged. Accordingly, to prevent the key from being divulged, key transfer and storage must be very strictly managed.

3DES
3DES (Triple Data Encryption Standard) is a high level of encryption in which DES encryption is repeated threefold.

A hash symbol (☑) appears to the right of the selected encryption method.

4 After completing the selection, press `[Complete]` (**[Right Select]**). The selected encryption method is set and the SSL menu reappears.

Once you have set an encryption method, and asterisk (*) appears in front of this menu option.

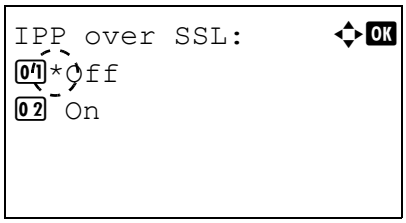


IPP over SSL (SSL Server IPP over SSL setting)

IPP over SSL is an encryption function that uses SSL for communications between users and servers in network printing. To use IPP over SSL, both server and client must support the protocol. The default setting is `Off`.

1 In the SSL Setting menu, press △ or ▽ to select `IPP over SSL`.

2 Press **[OK]**. The `IPP over SSL` screen appears.



3 Press △ or ▽ to select whether IPP over SSL is enabled.

4 Press **[OK]**. The IPP over SSL setting is set and the SSL Setting menu reappears.

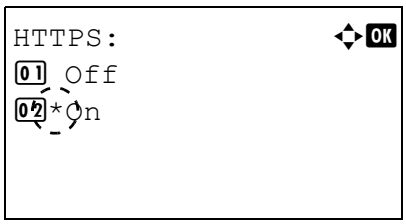
HTTPS (SSL Server HTTPS setting)

HTTPS (HyperText Transfer Protocol Secure) is a protocol that adds SSL data encryption, message authentication and a digital signature function to the HTTP protocol used for data transfer between WWW servers and clients.

S-HTTP is a similar protocol, but HTTPS differs in that it uses SSL. The default setting is `On`.

1 In the SSL Setting menu, press △ or ▽ to select `HTTPS`.

2 Press **[OK]**. The `HTTPS` screen appears.



3 Press △ or ▽ to select whether HTTPS is enabled.

4 Press **[OK]**. The HTTPS setting is set and the SSL Setting menu reappears.

IPSec (IPSec setting)

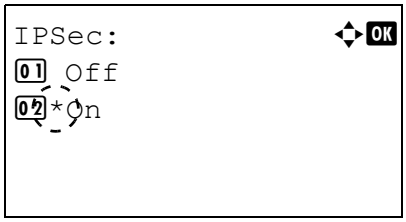
IPSec (IP Security Protocol) is a security protocol adopted as the standard by the IETF for authentication and encryption in the third network layer (IP layer).

It can be used with both IPv4 and IPv6.

Note IPv4 uses 32-bit IP addresses and IPv6 uses 128-bit IP addresses.

The default setting is `On`.

1 In the Network Security menu, press △ or ▽ to select `IPSec`.



2 Press **[OK]**. The `IPSec` screen appears.

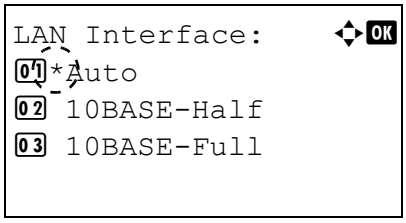
3 Press △ or ▽ to select whether IPSec is enabled.

4 Press **[OK]**. The IPSec setting is set and the Network Security menu reappears.

LAN Interface (LAN Interface setting)

Specify the settings for the LAN interface to be used. The default setting is `Auto`.

1 In the Network Security menu, press △ or ▽ to select LAN Interface.



2 Press **[OK]**. The `LAN Interface` screen appears.

The available LAN Interfaces are as follows:

`Auto`

`10BASE-Half`

`10BASE-Full`

`100BASE-Half`

`100BASE-Full`

`1000BASE-T`

3 Press △ or ▽ to select the desired LAN Interface.

4 Press **[OK]**. The LAN Interface is set and the `Network Security` menu reappears.

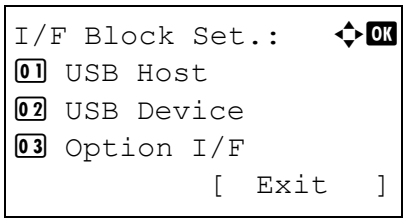
I/F Block Set. (External interface block setting)

You can use this to lock and thereby protect the interface.

The options available in I/F Block Set. are as follows:

- USB Host (USB memory slot setting)
- USB Device (USB interface setting)
- Option I/F (Network interface card (NIC) setting)
- USB Storage (USB memory setting)

1 In the Security menu, press △ or ▽ to select `I/F Block Set.`.



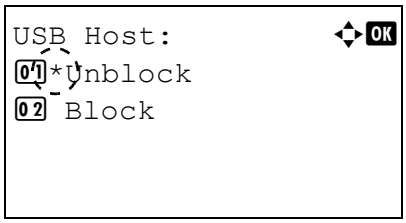
2 Press **[OK]**. The `I/F Block Set.` menu screen appears.

USB Host (USB memory slot setting)

This locks and protects the USB memory slot (USB Host). The default setting is `Unblock`.

1 In the I/F Block Set. menu, press △ or ▽ to select `USB Host`.

2 Press **[OK]**. The `USB Host` screen appears.



3 Press △ or ▽ to select whether a USB host is used.

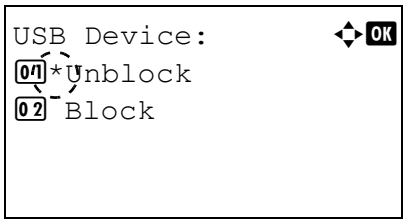
4 Press **[OK]**. The USB Host setting is set and the I/F Block Set. menu reappears.

USB Device (USB interface setting)

This locks and protects the USB interface. The default setting is `Unblock`.

1 In the I/F Block Set. menu, press △ or ▽ to select `USB Device`.

2 Press **[OK]**. The `USB Device` screen appears.



3 Press △ or ▽ to select whether a USB device is used.

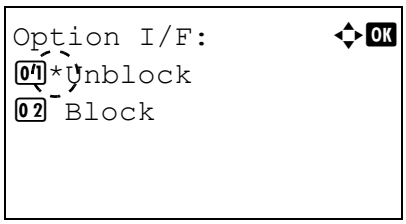
4 Press **[OK]**. The USB Device setting is set and the I/F Block Set. menu reappears.

Option I/F (Network interface card (NIC) setting)

This locks and protects the network interface card (NIC). The default setting is `Unblock`.

1 In the I/F Block Set. menu, press △ or ▽ to select `Option I/F`.

2 Press **[OK]**. The `Option I/F` screen appears.

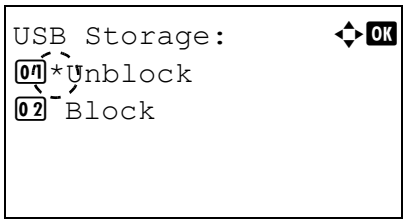


3 Press △ or ▽ to select whether an optional interface is used.

4 Press **[OK]**. The Optional I/F setting is set and the I/F Block Set. menu reappears.

USB Storage (USB memory setting)

This blocks and protects the USB storage (USB memory). The default setting is `Unblock`.



1 In the I/F Block Set. menu, press △ or ▽ to select `USB Storage`.

2 Press **[OK]**. The `USB Storage` screen appears.

3 Press △ or ▽ to select whether a USB storage is used.

4 Press **[OK]**. The USB Storage setting is set and the I/F Block Set. menu reappears.

Security Level

The Security Level setting is primarily a menu option used by service personnel for maintenance work. There is no need for customers to use this menu.

Job Account.Set. (Job Account setting)

Job Accounting is a function that allows the number of pages used by each department to be managed through the use of entered account IDs. To specify the Job Accounting settings, you must enter an administrator ID and password.

Refer to Administrator (administrator settings) for the procedure for setting the administrator ID and password.

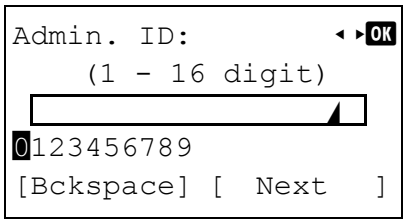
Job accounting on this machine offers the following features:

- Support for up to 100 departments
- Account IDs up to 8 digits long from 1 to 99999999
- Collective print management for the same account ID
- Totaling of the number of pages used for each department
- Specifiable limits (1 to 9,999,999) on the number of pages used

The options available in the Job Account.Set menu are as follows:

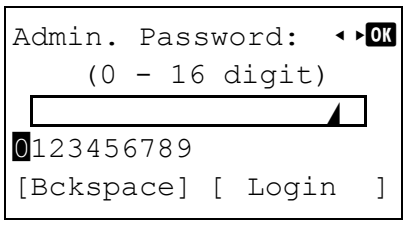
- Job Accounting (Job Accounting settings)
- Account. Report (Account report printing)
- Each Job Account (Totals display by account)
- Account. List (Account List operation)
- Apply Limit (Operation settings when limits are exceeded)
- Unknown ID Job (Operation settings for unknown account IDs)

1 Press **[MENU]**.



2 Press △ or ▽ to select `Job Account.Set.` and press **[OK]**. The `Admin. ID` input menu screen appears.

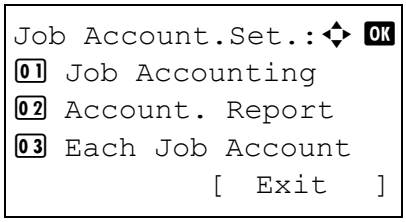
3 Enter the administrator ID. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.



4 When you have finished, press `[Next]` (**[Right Select]**). The `Admin. Password` input menu screen appears.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

5 Enter the administrator password. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.



6 When you have finished, press `[Login]` (**[Right Select]**). If the entered ID and password are correct, the `Job Account.Set.` menu screen appears.

If the entered ID and password are incorrect, the `Admin. ID` screen reappears. (You are returned to step 3.)

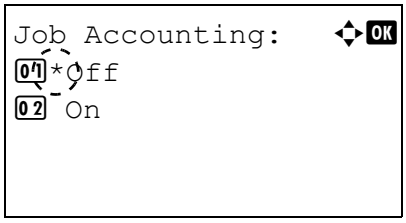
You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

Job Accounting (Job Accounting settings)

This allows you to turn the Job Accounting function `On` and `Off`.

1 In the Job Account.Set. selection menu, press △ or ▽ to select `Job Accounting`.

2 Press **[OK]**. The `Job Accounting` screen appears.



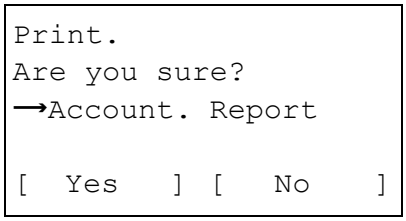
3 Press △ or ▽ to select `On` or `Off` and then press **[OK]**. The `Job Account.Set.` menu reappears.

Account. Report (Account report printing)

This enables you to print the total number of pages for all accounts as a Job Accounting list.

1 In the Job Account.Set. selection menu, press △ or ▽ to select `Account. Report`.

2 Press **[OK]**. A confirmation screen appears.



Press `[Yes]` (**[Left Select]**). `Accepted.` appears and the printer prints the job accounting list.

Pressing `[No]` (**[Right Select]**) returns you to the Job Account.Set. menu without printing the job accounting list.

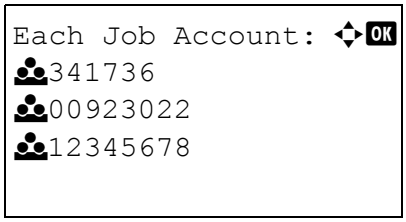
Each Job Account (Totals display by account)

Displays the number of pages printed for each of the currently selected accounts.

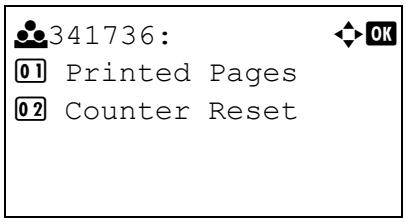
This enables you to check the following numbers for printed pages:

- Total
- Full Color
- Black & White (Monochrome)
- Duplex(1side) (Duplex (one-side))
- Duplex(2side) (Duplex (two sides))
- Combine(None) (Total (none))
- Combine(2in1) (Total (2 in 1))
- Combine(4in1) (Total (4 in 1))

1 In the Job Account.Set. selection menu, press △ or ▽ to select `Each Job Account`.



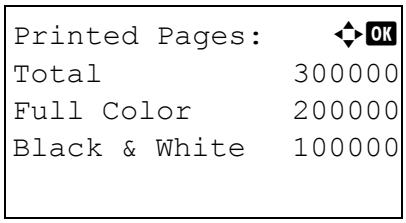
2 Press **[OK]**. The `Each Job Account` menu appears with the accounts with the highest numbers listed first.



3 Press △ or ▽ to select an account and then press **[OK]**. The `Printed Pages/Counter Reset` menu screen appears.

4 Press △ or ▽ to select `Printed Pages`.

5 Press **[OK]**. The `Printed Pages` menu list screen appears.



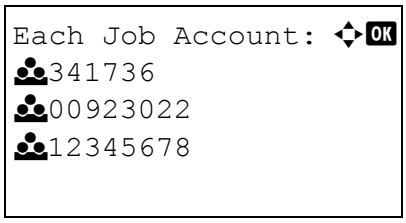
6 Press △ or ▽ to check the required counter display.

7 Press **[OK]**. The `Printed Pages/Counter Reset` menu screen reappears.

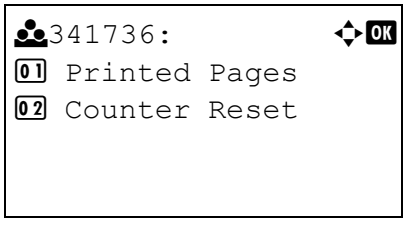
Each Job Account Counter Reset (Totals reset by account)

Resets the number of pages printed for each of the accounts currently set.

1 In the Job Account.Set. selection menu, press △ or ▽ to select `Each Job Account`.

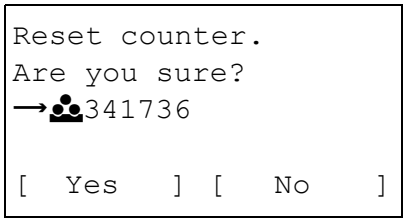


2 Press **[OK]**. The `Each Job Account` menu appears with the accounts with the highest numbers listed first.



3 Press △ or ▽ to select an account and then press **[OK]**. The `Printed Pages/Counter Reset` menu screen appears.

4 Press △ or ▽ to select `Counter Reset`.



5 Press **[OK]**. The reset confirmation menu screen appears.

To proceed with resetting the counter, press [Yes] (**[Left Select]**).

Completed. appears, the counter is reset and the Printed Pages/Counter Reset menu reappears.

Pressing [No] (**[Right Select]**) returns you to the Printed Pages/Counter Reset menu screen without resetting the counter.

Account. List (Account List operation)

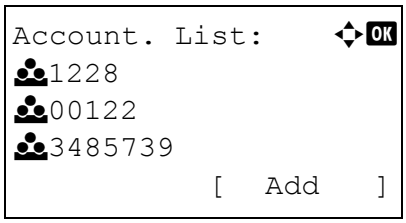
This specifies the setting for the department to be used for setting Job Accounting.

Add (Account registration)

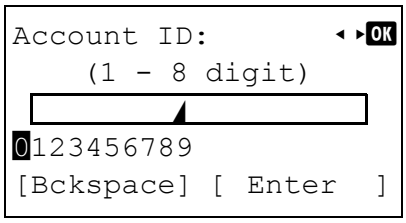
Use this procedure to add a new account.

Note Because account IDs are managed as numeric strings, "1" and "001" are handled as different accounts. Also, once Job Accounting is enabled, no jobs are printed unless information is attached showing the accounts from which the jobs are being printed.

1 In the Job Account.Set. selection menu, press △ or ▽ to select Account. List.



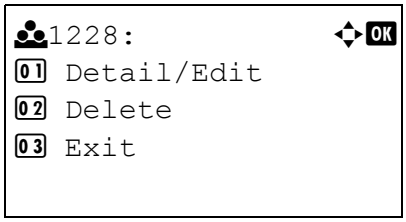
2 Press **[OK]**. The Account. List menu appears showing a list of the registered accounts in ascending order.



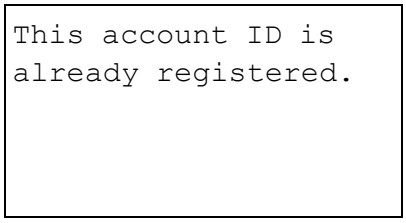
3 Press [Add] (**[Right Select]**). The Account ID menu screen appears.

4 Enter the account ID to be added. Use ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing [Bckspace] (**[Left Select]**).



5 Press [Enter] (**[Right Select]**). Once the account has been added, a list of selection options appears.

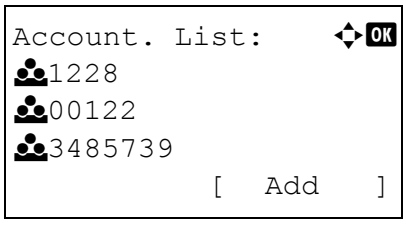


This message appears if the account ID has already been registered.

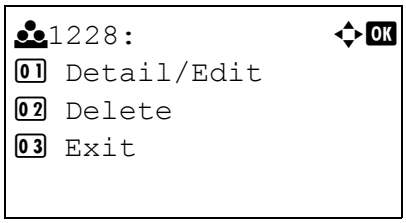
Detail/Edit (Checking/editing registered account ID settings)

This procedure allows you to check or edit registered accounts.

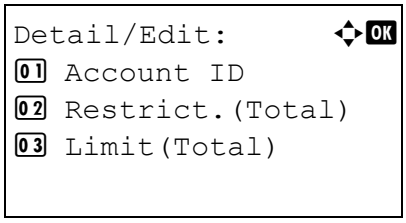
1 In the Job Account.Set. selection menu, press △ or ▽ to select Account. List.



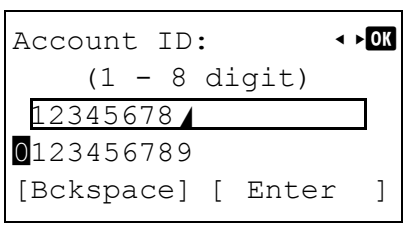
2 Press **[OK]**. The Account. List menu appears showing a list of the registered accounts in ascending order.



3 Press △ or ▽ to select an account to check or edit and then press **[OK]**. A list of selection options appears.

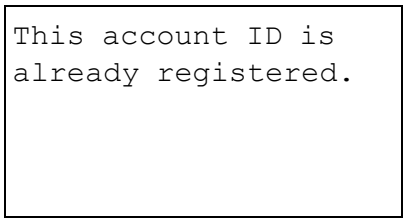


4 Press △ or ▽ to select Detail/Edit and then press **[OK]**. The Detail/Edit menu screen appears.

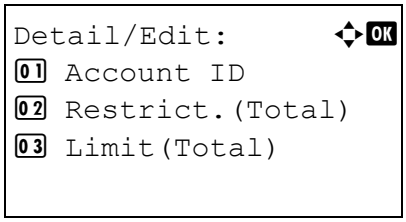


5 To edit an account ID, press △ or ▽ to select Account ID and then press **[OK]**. The Account ID menu screen appears.

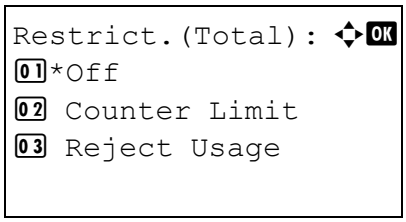
6 Enter the new account ID. Use ◁ or ▷ to select a number and then press **[OK]** to enter the number. You can go back one character by pressing [Bckspace] (**[Left Select]**).



This message appears if the account ID has already been registered.

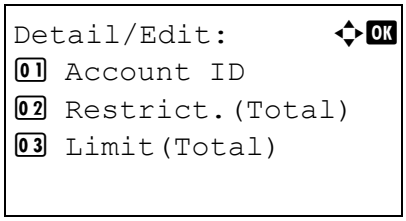


7 Press [Enter] (**[Right Select]**). When account ID editing ends, you are returned to the Detail/Edit menu.

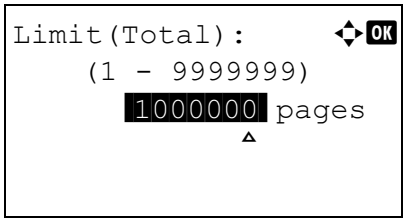


8 To place printing restrictions on this account, press △ or ▽ to select Restrict.(Total) and then press **[OK]**.
The Restrict.(Total) screen appears.

- Off
- Counter Limit
- Reject Usage

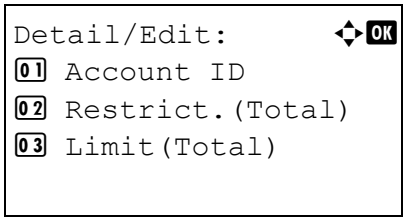


9 Press △ or ▽ to select a setting and then press **[OK]**. When the setting has been completed, the Detail/Edit menu screen appears.



10 When Counter Limit is set for Restrict.(Total) in step 9, set the limit on the total number of pages that can be printed using this account. Press △ or ▽ to select Limit(Total) and then press **[OK]**. The Limit(Total) menu screen appears.

IMPORTANT Limit(Total) is displayed when Counter Limit is set for Restrict.(Total).

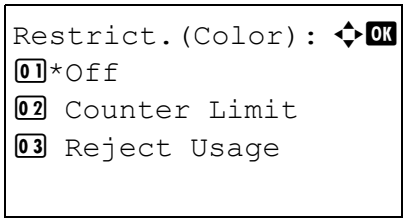


11 Enter the limit you want to set for this account. Use ◁ or ▷ to select a number and then press **[OK]** to enter the number. When you have finished, press [Enter] (**[Right Select]**). The Detail/Edit menu screen appears.

Press △ or ▽ to increase or decrease, respectively, the value at the blinking cursor.

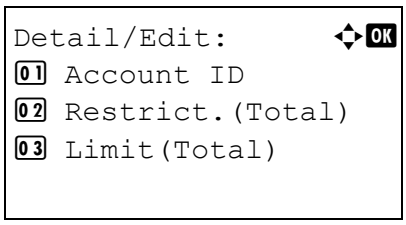
Use ◁ and ▷ to move the cursor right and left.

After you have entered the limit on the number of pages, press **[OK]**. The setting is stored and the Detail/Edit menu reappears.

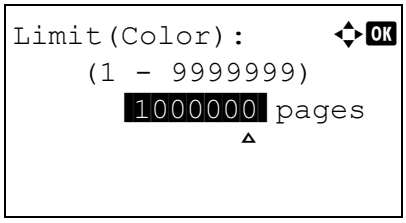


12 To place color printing restrictions on this account, press △ or ▽ to select `Restrict.(Color)` and then press **[OK]**. The `Restrict.(Color)` screen appears.

- `Off`
- `Counter Limit`
- `Reject Usage`

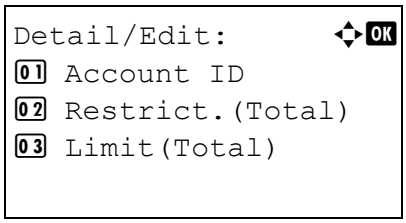


13 Press △ or ▽ to select a setting and then press **[OK]**. When the setting has been completed, the `Detail/Edit` menu screen appears.



14 When `Counter Limit` is set for `Restrict.(Color)` in step 13, set the limit on the total number of color pages that can be printed using this account. Press △ or ▽ to select `Limit(Color)` and then press **[OK]**. The `Limit(Color)` screen appears.

IMPORTANT `Limit(Color)` is displayed when `Counter Limit` is set for `Restrict.(Color)`.



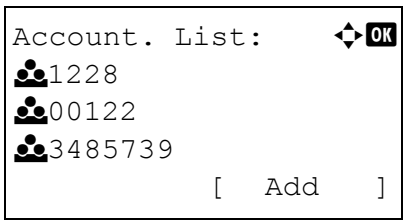
15 Enter the color printing limit you want to set for this account. Use ◁ or ▷ to select a number and then press **[OK]** to enter the number.

When you have finished, press `[Enter]` (**[Right Select]**). The `Detail/Edit` menu screen appears.

Delete (Deleting registered accounts)

You can use this procedure to delete a registered account ID.

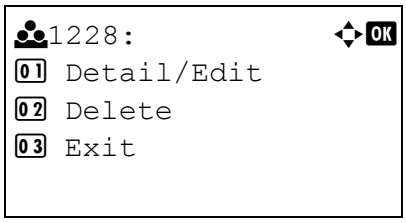
1 In the Job Account.Set. selection menu, press △ or ▽ to select `Account. List`.

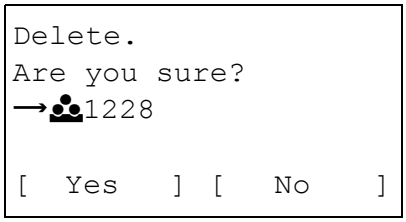


2 Press **[OK]**. The `Account. List` menu appears showing a list of the registered accounts in ascending order.

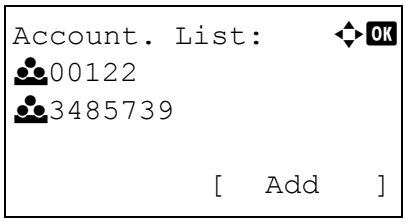
3 Press △ or ▽ to select the ID of the account to be deleted.

4 Press **[OK]**. A list of selection options appears.





5 Press △ or ▽ to select `Delete` and then press **[OK]**. A confirmation screen appears.



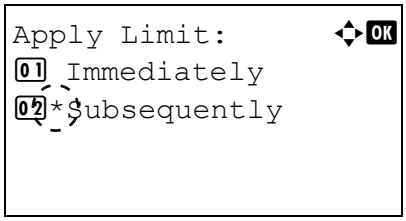
6 To proceed with deleting the account, press `[Yes]` (**[Left Select]**). `Completed.` appears and the account is deleted. The Once deleting of the account ends, the `Account. List` screen reappears.

7 Pressing `[No]` (**[Right Select]**) returns you to the `Account. List` menu screen without deleting the account.

Apply Limit (Operation settings when limits are exceeded)

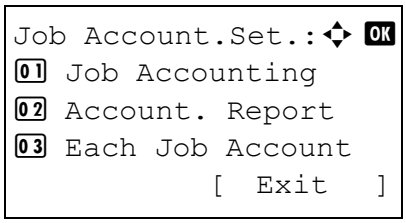
Use this to specify the action taken when a department exceeds its printing limits.

1 In the Job Account.Set. selection menu, press △ or ▽ to select `Apply Limit`.



2 Press **[OK]**. The `Apply Limit` screen appears.

- `Immediately` (prohibit printing from this job onwards)
- `Subsequently` (prohibit printing from the next job onwards)



3 Press △ or ▽ to select a setting and then press **[OK]**. The `Job Account.Set.` selection menu list reappears.

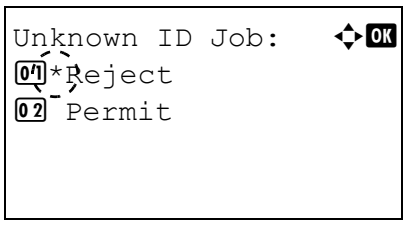
Unknown ID Job (Operation settings for unknown account IDs)

Use this procedure to specify whether print jobs from departments with unknown account IDs are permitted.

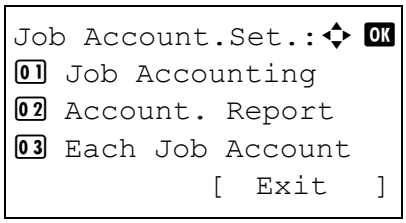
1 In the Job Account.Set. selection menu, press △ or ▽ to select `Unknown ID Job`.

2 Press **[OK]**. The `Unknown ID Job` screen appears.

- `Reject` (Not printed)
- `Permit` (Printed)



3 Press △ or ▽ to select a setting and then press **[OK]**. The `Job Account.Set.` selection menu list reappears.



Administrator (Administrator settings)

The Administrator setting is a function that identifies a user who can use the printer and manage other users.

When using the Security and Job Accounting functions, the administrator ID and password set here are authenticated, and settings can be specified after they are properly authenticated.

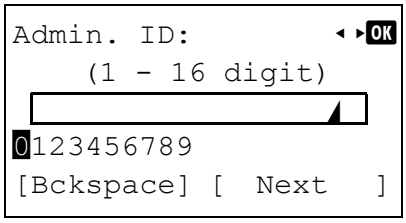
The options available to the administrator are as follows:

- ID (Administrator ID setting)
- Password (Administrator password setting)

1 Press **[MENU]**.

2 Press △ or ▽ to select `Administrator`.

3 Press **[OK]**. The `Admin. ID` screen appears.

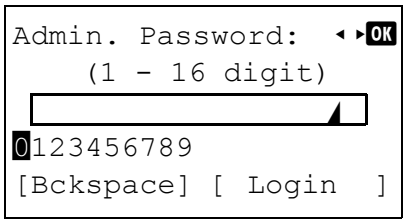


4 Enter the administrator ID. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

Note The default setting is "`3500`".

5 Press `[Next]` (**[Right Select]**). The `Admin. Password` screen appears.

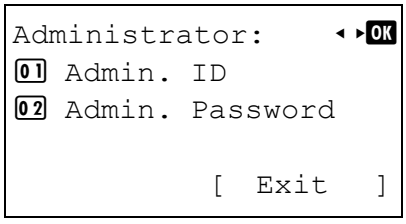


6 Enter the administrator password. Use the ◁ or ▷ to select a number and then press **[OK]** to enter the number.

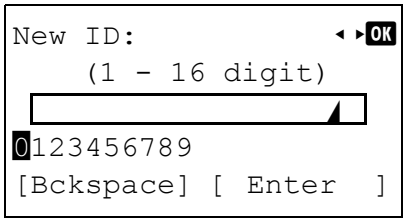
You can go back one character by pressing `[Bckspace]` (**[Left Select]**).

Note The default setting is "`3500`".

7 Press `[Login]` (**[Right Select]**). If the entered ID and password are correct, the Administrator menu screen appears. If the entered ID and password are incorrect, the `Admin. ID` menu screen reappears. (You are returned to step 3.)



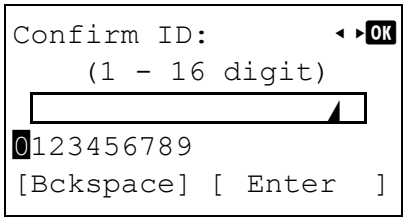
8 Press △ or ▽ to select `Admin. ID`.



9 Press **[OK]**. The `New ID` screen appears.

10 Enter the administrator ID to be registered. Use ◁ or ▷ to select a number and then press **[OK]** to enter the number.

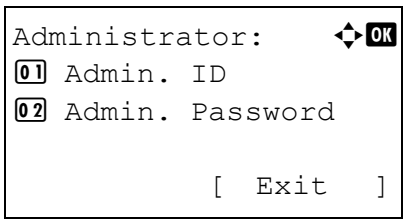
You can go back one character by pressing `[Bckspace]` (**[Left Select]**).



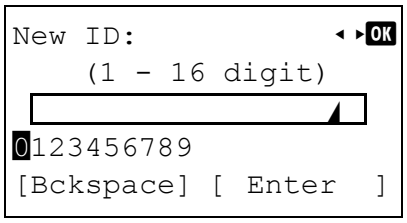
11 When you have finished, press `[Enter]` (**[Right Select]**). The `Confirm ID` menu screen appears.

12 To confirm, re-enter the administrator ID to be registered. Use ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing `[Bckspace]` (**[Left Select]**).



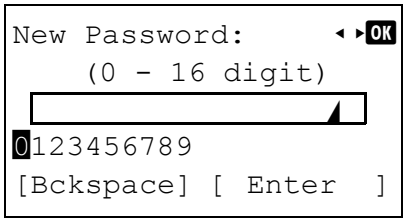
13 When you have finished, press `[Enter]` (**[Right Select]**). You return to the Administrator menu screen.



If the administrator IDs do not match, the `New ID` reappears.

Enter the administrator ID to be registered once more, starting again from the beginning.(You are returned to step 10.)

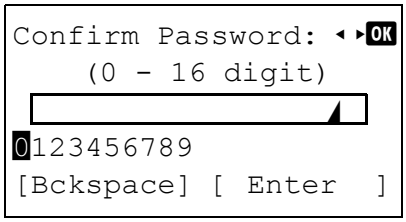
14 In the Administrator menu, press △ or ▽ to select `Admin. Password`.



15 Press **[OK]**. The `New Password` screen appears.

16 Enter the administrator password to be registered. Use ◁ or ▷ to select a number and then press **[OK]** to enter the number.

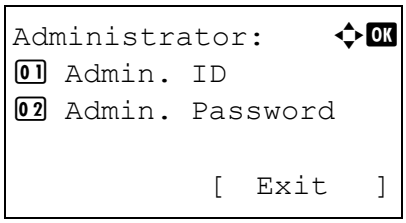
You can go back one character by pressing `[Bckspace]` (**[Left Select]**).



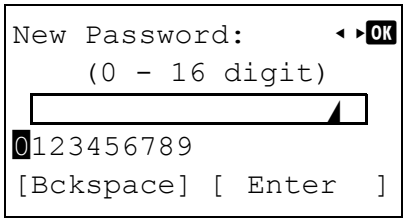
17 When you have finished, press [Enter] (**[Right Select]**). The Confirm Password menu screen appears.

18 To confirm, re-enter the administrator password to be registered. Use ◁ or ▷ to select a number and then press **[OK]** to enter the number.

You can go back one character by pressing [Bckspace] (**[Left Select]**).



19 When you have finished, press [Enter] (**[Right Select]**). The Administrator menu screen appears.



If the administrator passwords do not match, the New Password screen reappears. Enter the administrator password to be registered once more, starting again from the beginning. (You are returned to step 16.)

Adjust/Maint. (Adjust/Maintenance selection/setting)

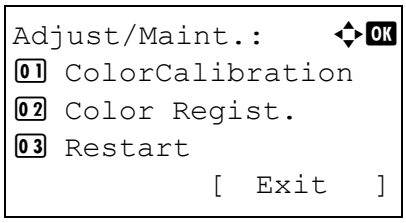
Adjust/Maintenance is used to adjust the print quality and to carry out printer maintenance.

The options available in Adjust/Maintenance are as follows:

- ColorCalibration
- Color Regist. Normal (Color registration [Standard])
- Color Regist. Detail (Color registration [Detailed])
- Restart (Restart Printer)
- Service Setting (for Maintenance)

IMPORTANT `Service Setting` is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu.

1. Press **[MENU]**.
2. Press △ or ▽ to select `Adjust/Maint.`.
3. Press **[OK]**. The `Adjust/Maint.` menu appears showing a list of available options.



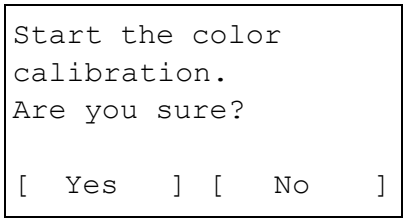
ColorCalibration

This printer contains a calibration function that automatically makes adjustments to compensate for changes that occur over time due to variations in the ambient temperature and humidity. So that the highest quality color printing can be maintained, this color calibration operation is carried out automatically each time the power to the printer is turned on. The color calibration operation may be carried out automatically during recovery from the Auto Sleep or during printing.

1. In the Adjust/Maint. menu screen, press △ or ▽ to select `ColorCalibration`.
2. Press **[OK]**. A confirmation screen appears.

   Press `[Yes]` (**[Left Select]**). Color calibration is carried out, after which you return to the standby screen.

   Pressing `[No]` (**[Right Select]**) returns you to the `Adjust/Maint.` menu without carrying out color calibration.



Color Regist. Normal (Color registration [Standard])

When using the printer for the first time after set-up or after having moved it, or if printout of any color (magenta, cyan or yellow) is skewed, use this mode to correct the color registration on the operation panel.

The options available in Registration Normal (Color registration [standard]) are as follows:

- Print Chart (Printing the color registration correction chart)
- Adjust Magenta (Magenta correction)
- Adjust Cyan (Cyan correction)
- Adjust Yellow (Yellow correction)

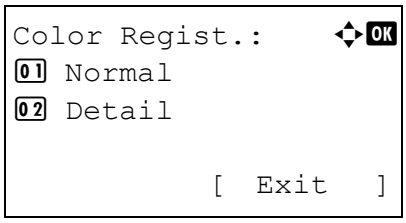
Print Chart (Printing the color registration correction chart)

You can use this option to print a color registration correction chart for use in correcting the color registration.

1 In the Adjust/Maint. menu screen, press △ or ▽ to select `Color Regist.`.

2 Press **[OK]**. The `Color Regist.` menu screen appears.

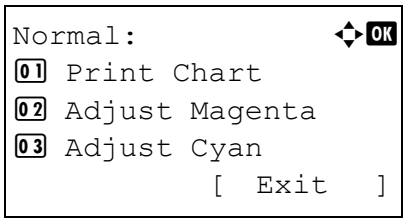
Press `[Exit]` (**[Right Select]**) to return to the standby screen.



3 Press △ or ▽ to select `Normal`.

4 Press **[OK]**. The `Color Regist. Normal` menu screen appears.

Press `[Exit]` (**[Right Select]**) to return to the standby screen.



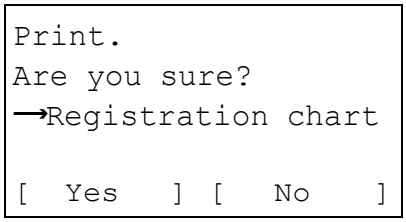
5 Press △ or ▽ to select `Print Chart`.

6 Press **[OK]**. A confirmation screen appears.

If Job Accounting is enabled, enter the account ID in the login screen that appears. A confirmation screen appears after login.

Press `[Yes]` (**[Left Select]**). A confirmation screen appears.

Pressing `[No]` (**[Right Select]**) returns you to the `Color Regist. Normal` menu screen without printing the registration chart.



The printed chart is the color registration correction chart shown on the next page.

The printed color registration correction chart includes left (L), vertical (V) and right (R) registration charts for each color (cyan, magenta and yellow).

Sample Color Registration Correction Chart [Normal]

Adjust Magenta (Magenta correction)

Corrects the registration for magenta (red).

1 In the Adjust/Maint. menu screen, press △ or ▽ to select `Color Regist.`.

2 Press **[OK]**. The `Color Regist.` menu screen appears.

Press `[Exit]` (**[Right Select]**) to return to the standby screen.

```
Color Regist.:
01 Normal
02 Detail
           [  Exit   ]
```

3 Press △ or ▽ to select `Normal`.

4 Press **[OK]**. The `Color Regist. Normal` menu screen appears.

Press `[Exit]` (**[Right Select]**) to return to the standby screen.

```
Normal:
01 Print Chart
02 Adjust Magenta
03 Adjust Cyan
           [  Exit   ]
```

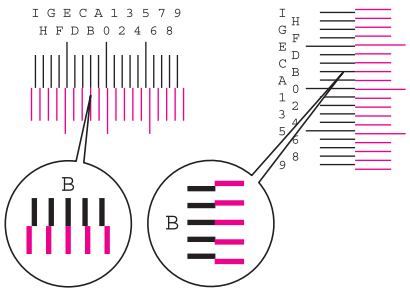
5 Press △ or ▽ to select `Adjust Magenta`.

6 Press **[OK]**. The `Adjust Magenta` screen appears.

`0` is displayed for the `H-L`, `V` and `H-R` values and the cursor (_) flashes under the `L` value.

```
Adjust Magenta:
   (I - A, 0 - 9)

H-L: 0  V: 0  H-R: 0
```

7 In the L chart for magenta printed in Print Chart above, note the values where the lines are closest to forming a single straight line. This would be B in this figure.



8 Press △ or ▽ until that value is displayed.

```
Adjust Magenta:
   (I - A, 0 - 9)

H-L: B  V: 0  H-R: 0
```

9 Press ◁ or ▷ to move the cursor right or left.

Using the same procedure as for the `H-L` value, display the `V` and `H-R` values identified in the color registration correction chart.

When you have completed all the values, press **[OK]**.

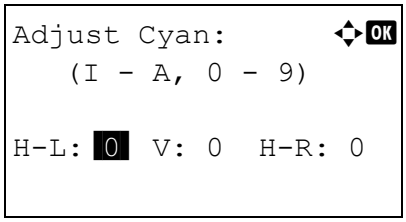
The setting is saved and you are returned to the `Color Regist. Normal` menu screen.

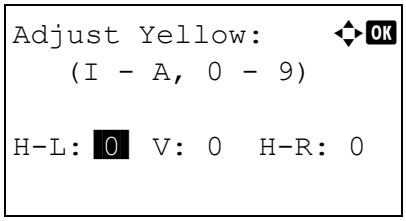
Adjust Cyan (Cyan correction) and Adjust Yellow (Yellow correction)

These options correct the registration for cyan (blue) and yellow.

1 In the Color Regist. Normal menu screen, press △ or ▽ to select `Adjust Cyan` or `Adjust Yellow`.

2 Press **[OK]**. The `Adjust Cyan` or `Adjust Yellow` screen appears.





Using the same procedure as for magenta, identify the cyan and yellow values in the color registration correction chart and set them in the printer.

Note As confirmation, try printing the color registration correction chart again. If the section where the lines most closely coincide as a single straight line is not 0, redo the adjustment again from Magenta.

IMPORTANT If the problem of skewed-color printout still persists even after correcting the color registration, call for service.

Color Regist. Detail (Color registration [Detailed])

This allows you to make fine horizontal and vertical adjustments to the color registration corrections.

The options available in Color Regist. Details (Color registration [detailed]) are as follows:

- Print Chart (Printing the color registration correction chart)
- Adjust Magenta (Magenta correction)
- Adjust cyan (Cyan correction)
- Adjust yellow (Yellow correction)

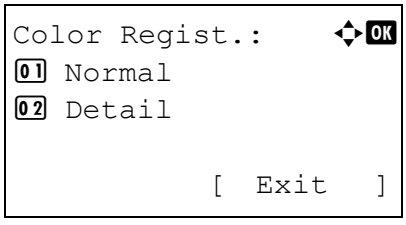
Print Chart (Printing the color registration correction chart)

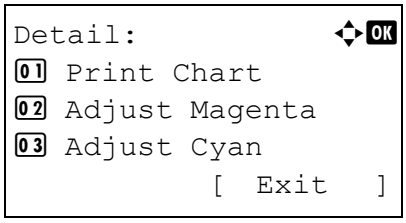
You can use this option to print a color registration correction chart for use in correcting the color registration.

1 In the Adjust/Maint. menu screen, press △ or ▽ to select `Color Regist.`.

2 Press **[OK]**. The `Color Regist.` menu screen appears.

Press `[Exit]` (**[Right Select]**) to return to the standby screen.

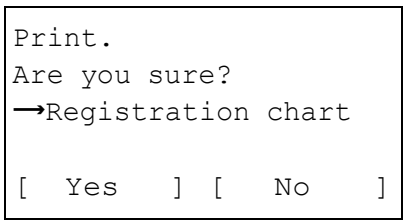




3 Press △ or ▽ to select `Detail`.

4 Press **[OK]**. The `Color Regist. Detail` menu screen appears.

Press `[Exit]` (**[Right Select]**) to return to the standby screen.



5 Press △ or ▽ to select `Print Chart`.

6 Press **[OK]**. A confirmation screen appears.

Press `[Yes]` (**[Left Select]**). `Completed` appears and printing begins.

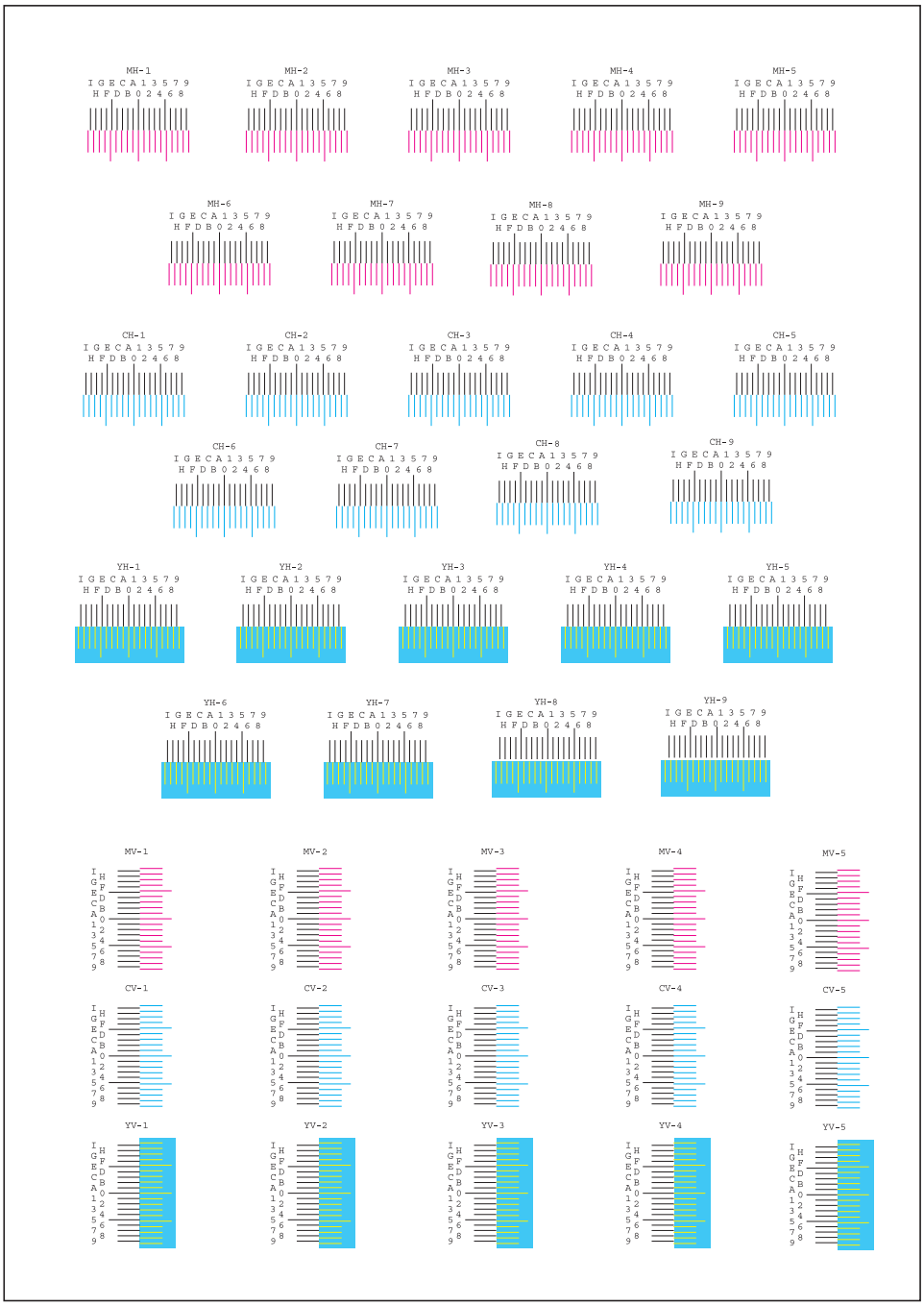
Pressing `[No]` (**[Right Select]**) returns you to the `Color Regist. Detail` menu screen without printing the registration chart.

If Job Accounting is enabled, a confirmation screen appears after department login.

The printed chart is the color registration correction chart shown on the next page.

The printed color registration correction chart includes left (L), vertical (V) and right (R) registration charts for each color (cyan, magenta and yellow).

Sample Color Registration Correction Chart [Detail]



Adjust Magenta (Magenta correction)

Makes detailed corrections to the registration for magenta (red).

1 In the Adjust/Maint. menu screen, press △ or ▽ to select `Color Regist.`.

2 Press **[OK]**. The `Color Regist.` menu screen appears.

Press `[Exit]` (**[Right Select]**) to return to the standby screen.

```
Color Regist.:        OK
01 Normal
02 Detail

            [  Exit   ]
```

3 Press △ or ▽ to select `Detail`.

4 Press **[OK]**. The `Color Regist. Detail` menu screen appears.

Press `[Exit]` (**[Right Select]**) to return to the standby screen.

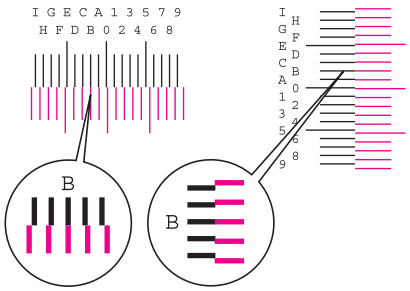
```
Detail:               OK
01 Print Chart
02 Adjust Magenta
03 Adjust Cyan
            [  Exit   ]
```

5 Press △ or ▽ to select `Adjust Magenta`.

6 Press **[OK]**. The `Adjust Magenta` screen appears.

Values are displayed for `H-1`, `H-2`, `H-3`, `H-4`, `H-5` and `V-3`.

```
Adjust Magenta:       OK
   (I - A, 0 - 9)
H-1: 0 H-2: 0 H-3: 0
H-4: 0 H-5: 0 V-3: 0
```



7 In the H and V charts for magenta printed in Print Chart above, note the values where the lines are closest to forming a single straight line.

This would be B in this figure.

```
Adjust Magenta:       OK
   (I - A, 0 - 9)
H-1: B H-2: 0 H-3: 0
H-4: 0 H-5: 0 V-3: 0
```

8 Press △ or ▽ until that value is displayed.

9 Press ◁ or ▷ to move the cursor right or left.

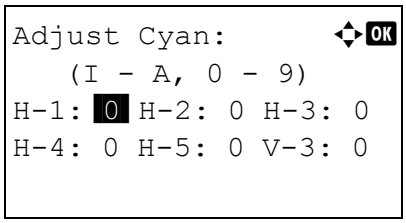
Using the same procedure as for the H-1 value, display the other values identified in the color registration correction chart. When you have completed all the values, press **[OK]**. The setting is saved and you are returned to the `Color Regist. Detail` menu screen.

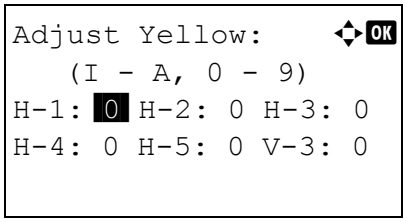
Adjust Cyan (Cyan correction) and Adjust Yellow (Yellow correction)

These options make detailed corrections to the registration for cyan (blue) and yellow.

1 In the Color Regist. Detail menu screen, press △ or ▽ to select `Adjust Cyan` or `Adjust Yellow`.

2 Press **[OK]**. The `Adjust Cyan` or `Adjust Yellow` screen appears.





Using the same procedure as for magenta above, identify the cyan and yellow values in the color registration correction chart and set them in the printer.

Note As confirmation, try printing the color registration correction chart again. If the section where the lines most closely coincide as a single straight line is not 0, redo the adjustment again from Magenta.

IMPORTANT If the problem of skewed-color printout still persists even after correcting the color registration, call for service.

Restart (Restart Printer)

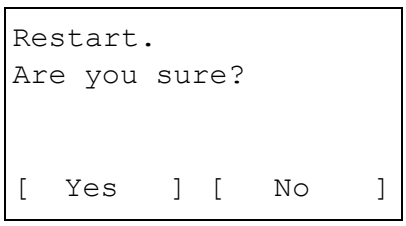
The procedure described below resets the printer's temporary conditions, such as the current page orientation, font, etc., set by commands to their default values. Downloaded fonts and macros are deleted from the printer's memory.

1 In the Adjust/Maint. menu screen, press △ or ▽ to select `Restart.`.

2 Press **[OK]**. A confirmation screen appears.

Press `[Yes]` (**[Left Select]**). The printer is restarted.

Pressing `[No]` (**[Right Select]**) returns you to the `Adjust/Maint.` menu screen without restarting the printer.



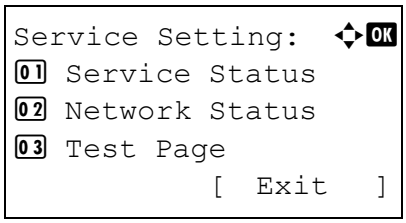
Service Setting (for Maintenance)

The options available in Service are as follows:

- Service Status (Printing the service status page)
- Network Status (Printing the network status page)
- Op Netwk Status (Printing the option network status page)
- Maintenance (New Maintenance Kit replacement confirmation setting)
- DEV-CLN (Developer/Refresh mode setting)
- Drum (Drum/Refresh mode setting)
- LSU (LSU cleaning mode setting)
- Drum Heater

IMPORTANT `Service` is primarily a menu used by service personnel for maintenance work. There is no need for customers to use this menu. Also, `Maintenance` only appears when `Replace MK.` is displayed.

1. In the Adjust/Maint. menu screen, press △ or ▽ to select `Service Setting`.
2. Press **[OK]**. The `Service Setting` menu screen appears.



Service Status (Printing the service status page)

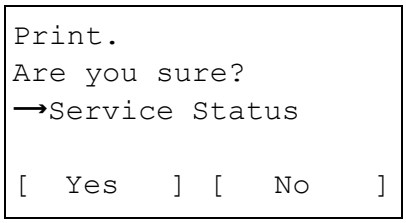
The service status page contains printer settings information that is more detailed than the standard status page and is therefore mostly for service purposes. However, there is a great deal of information on the service status page that may be useful to you.

1. In the Service Setting menu, press △ or ▽ to select `Service Status`.
2. Press **[OK]**. A confirmation screen appears.

   If Job Accounting is enabled, a confirmation screen appears after department login.

   Press `[Yes]` (**[Left Select]**). `Accepted.` appears and printing begins.

   Pressing `[No]` (**[Right Select]**) returns you to the `Service Setting` menu screen without printing the service status page.



Network Status (Printing the network status page)

The network status page contains detailed information on the network settings. This is primarily used for maintenance by service personnel, but it contains information that may also be useful to you.

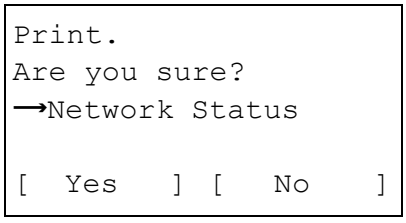
1 In the Service Setting menu, press △ or ▽ to select `Network Status`.

2 Press **[OK]**. A confirmation screen appears.

If Job Accounting is enabled, a confirmation screen appears after department login.

Press `[Yes]` (**[Left Select]**). `Accepted.` appears and printing begins.

Pressing `[No]` (**[Right Select]**) returns you to the Service Setting menu screen without printing the service status page.



Op Netwk Status (Printing the option network status page)

The option network status page contains detailed information on the network settings. This is primarily used for maintenance by service personnel, but it contains information that may also be useful to you.

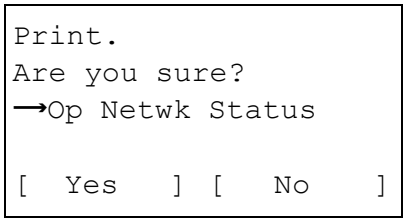
1 In the Service Setting menu, press △ or ▽ to select `Op Netwk Status`.

2 Press **[OK]**. A confirmation screen appears.

If Job Accounting is enabled, a confirmation screen appears after department login.

Press `[Yes]` (**[Left Select]**). `Accepted.` appears and printing begins.

Pressing `[No]` (**[Right Select]**) returns you to the Service Setting menu screen without printing the service status page.



Test Page (Printing the test page)

The test page is printed to check the effectiveness of printer adjustments. This is primarily used for maintenance by service personnel, but it contains information that may also be useful to you.

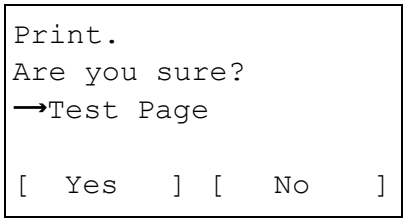
1 In the Service Setting menu, press △ or ▽ to select `Test Page`.

2 Press **[OK]**. A confirmation screen appears.

If Job Accounting is enabled, a confirmation screen appears after department login.

Press `[Yes]` (**[Left Select]**). `Accepted.` appears and printing begins.

Pressing `[No]` (**[Right Select]**) returns you to the Service Setting menu screen without printing the service status page.



Maintenance (New Maintenance Kit replacement confirmation setting)

This specifies the setting for confirmation of replacement with the new Maintenance Kit (resets the total number of Maintenance Kit print images). This is primarily used for maintenance by service personnel.

Note The `Maintenance` menu is displayed only when `Install MK` appears.

1. In the Service Setting menu, press △ or ▽ to select `Maintenance`.
2. Press **[OK]**. A confirmation screen appears.

   Press `[Yes]` (**[Left Select]**). `Completed` appears and the maintenance counter is reset.

   Pressing `[No]` (**[Right Select]**) returns you to the Service Setting menu screen without resetting the maintenance counter.

```
Maintenance
Are you sure?


[  Yes   ] [   No    ]
```

DEV-CLN (Developer/Refresh mode setting)

This sets the refresh mode for the developer. When the printing quality declines, refreshing the developer can restore the printing quality. This is primarily used for maintenance by service personnel.

1. In the Service Setting menu, press △ or ▽ to select `DEV-CLN`.
2. Press **[OK]**. A confirmation screen appears.

   Press `[Yes]` (**[Left Select]**). The developer is refreshed.

   Pressing `[No]` (**[Right Select]**) returns you to the Service Setting menu screen without refreshing the developer.

```
DEV-CLN
Are you sure?


[  Yes   ] [   No    ]
```

Drum (Drum/Refresh mode setting)

This sets the refresh mode for the drum. When the printing quality declines, refreshing the drum can restore the printing quality. This is primarily used for maintenance by service personnel.

1. In the Service Setting menu, press △ or ▽ to select `Drum`.
2. Press **[OK]**. A confirmation screen appears.

   Press `[Yes]` (**[Left Select]**). Carry out drum refresh.

   Pressing `[No]` (**[Right Select]**) returns you to the Service Setting. menu screen without refreshing the drum.

```
Drum
Are you sure?


[  Yes   ] [   No    ]
```

LSU (LSU cleaning mode setting)

This sets the cleaning mode for the LSU. When the printing quality declines, cleaning the LSU can restore the printing quality. This is primarily used for maintenance by service personnel.

1. In the Service Setting menu, press △ or ▽ to select `LSU`.
2. Press **[OK]**. A confirmation screen appears.

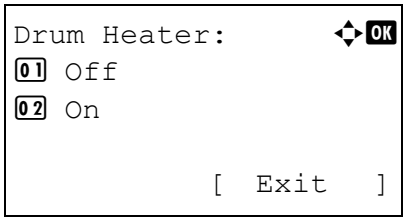
   Press `[Yes]` (**[Left Select]**). Carry out the LSU cleaning.

```
LSU
Are you sure?


[  Yes   ] [   No    ]
```

Pressing [No] (**[Right Select]**) returns you to the Service Setting menu screen without cleaning the LSU.

Drum Heater

This sets the On/Off of the drum heater integrated in the printer. When Drum Heater is set to On, the drum heater continues to start, but the drum refresh is not carried out. When the printer is installed in a high humidity environment, the start up time can be shortened.



1. In the Service Setting menu, press △ or ▽ to select DRUM2.
2. Press △ or ▽ to select Off or On.
3. Press **[OK]**. The Service Setting selection menu list reappears.

5 Maintenance

This chapter contains explanations on the following topics:

General Information 5-2
Toner Container Replacement 5-2
Replacing the Waste Toner Box 5-6
Cleaning the Printer 5-8

General Information

This chapter describes basic maintenance tasks you can perform on the printer. You can replace the following component according to the printer's display:

- Toner Kits
- Waste Toner Box

Also, the following parts need periodic cleaning:

- Paper Transfer Unit

Note Information Collection on Memory Chips - The memory chip attached to the toner container is designed to improve convenience for the end user; to support the recycling operation of empty toner containers; and to gather information to support new product planning and development. The information gathered is anonymous - it cannot be associated to any specific individual and the data is intended to be used anonymously.

Toner Container Replacement

The toner container in the printer should be replaced as soon as the message display shows `Toner is low.(Replace when empty.)` or soon after. (The `[C][M][Y][K]` displayed alternately with the message indicates the toner color that needs replacing.) If you continue to use the printer, eventually the toner supply will be exhausted at which point the printer will stop printing and the `Replace the toner.[Toner Color] Clean the Printer.` message will be shown instructing you to install a new toner kit.

Toner Color	Toner container model number		
	For Europe	For U.S.A.	For Australia and Asia
Black	TK-570K	TK-572K	TK-574K
Cyan	TK-570C	TK-572C	TK-574C
Magenta	TK-570M	TK-572M	TK-574M
Yellow	TK-570Y	TK-572Y	TK-574Y

Frequency of Toner Container Replacement

The life of the toner containers depends on the amount of toner required to accomplish your printing jobs. According to ISO/IEC 19798 and EcoPrint switched off the toner container can print as follows (A4/Letter paper is assumed):

Toner Color	Life of the Toner Container (Printable pages)
Black	16000 images
Cyan	12000 images
Magenta	12000 images
Yellow	12000 images

Note The toner container packed with the new printer has to fill up the system when operating the first time. Therefore only 50% of the first toner kits can be used for printing. For example: The toner container (black) supplied with the printer will print approximately 8,000 pages (images).

Toner Kits

For best results, we recommend that you only use genuine Parts and Supplies.

The toner kits are supplied in 4 different colors: cyan, magenta, yellow and black.

A new toner kit for each color contains the following items:

- Toner Container
- Plastic waste bags for old toner container and old waste toner box
- Waste Toner Box
- Installation Guide

Note Do not remove the toner container from the carton until you are ready to install it in the printer.

Replacing the Toner Container

This section explains how to replace the toner containers. When replacing the toner container of any color, always replace the waste toner box at the same time. If this box is full, the printer may be damaged or contaminated by the waste toner that may spill over the box.

CAUTION Do not attempt to incinerate the Toner Container. Dangerous sparks may cause burns.

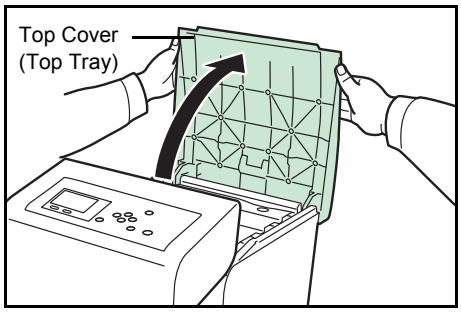
IMPORTANT During toner container replacement, temporarily move storage media and computer supplies (such as floppy disks and USB memories) away from the toner container. This is to avoid damaging media by the magnetism of toner.

IMPORTANT Always clean the inside of the printer after replacing the toner cartridge. For details, refer to *Cleaning the Printer on page 5-8*.

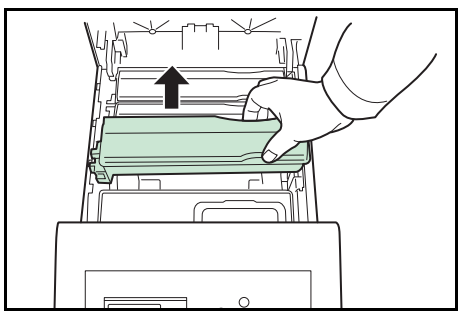
IMPORTANT We are not liable against any damages or problems arising from the use of toner containers other than those designated as original our toner containers. For optimum performance, it is also recommended to use only the our toner containers which are specifically intended for use in your country or region. If the toner container for another destinations is installed, the printer will stop printing.

Note You do not have to turn printer power off before starting the replacement. Any data that may be processing in the printer will be deleted if you turn the printer power off.

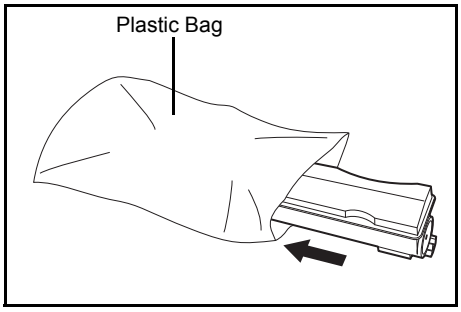
To replace the toner container, first make sure of the color of the toner container requiring replacement. In this example, it is assumed that you are replacing the yellow toner container.



1 Open the top cover (top tray).

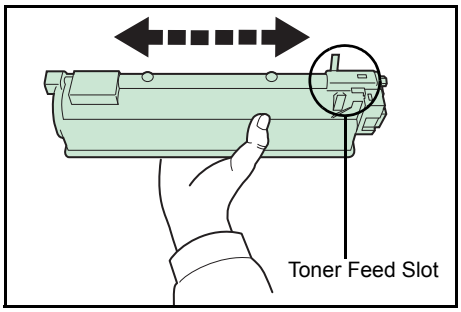


2 Carefully remove the old toner container from the printer.

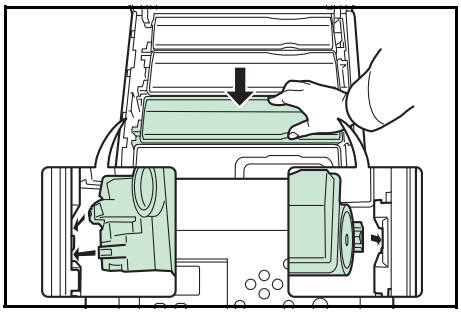


3 Put the old toner container in the plastic bag (contained in the toner kit) and discard it later according to the local code or regulations for waste disposal.

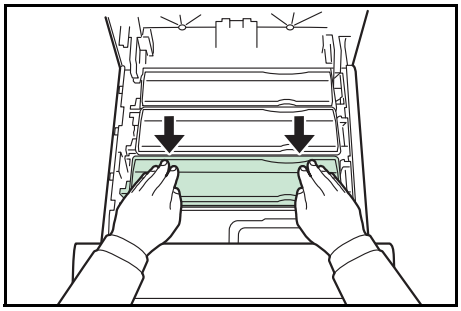
4 Take the new toner container out of the toner kit.



5 Shake the new toner container 5 or 6 times as shown in the figure in order to distribute the toner evenly inside the container.
Do not press too firmly on the center of the toner container or touch the toner feed slot.



6 Set the new toner container in the printer as shown in the figure.



7 Push down on the top of the toner container to install it firmly in place.

Use the same procedure to replace the other color toner containers.

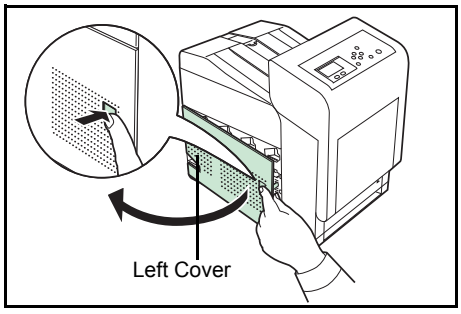
8 Close the top cover (top tray).

Note If the top cover (top tray) does not close, check that the new toner container is installed correctly (in step 7).
After use, always dispose of the toner container and the waste toner box in accordance with Federal, State and Local rules and regulations.

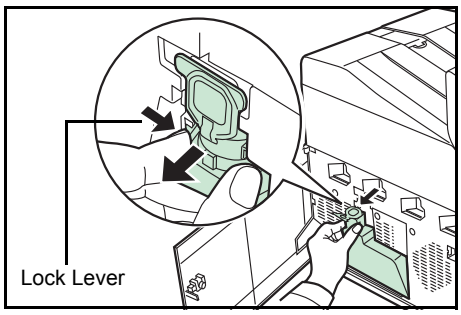
Proceed to the next section.

Replacing the Waste Toner Box

Replace the waste toner box when the `Check waste toner box.` Message is displayed. A new waste toner box is included with the toner kit. The waste toner box needs to be replaced before the printer will operate.

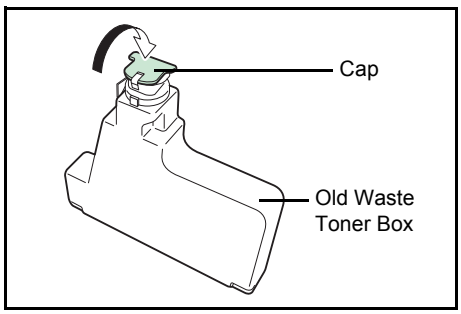


1 Open the left cover.

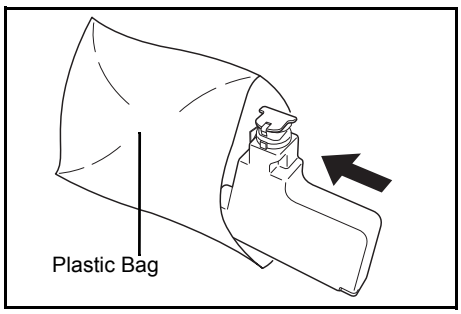


2 While holding the waste toner box, press the lock lever and then gently remove the waste toner box.

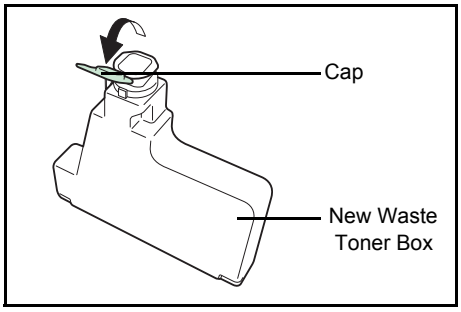
Note Remove the waste toner box as gently as possible so as not to scatter the toner inside. Do not let the opening of the waste toner box face downward.



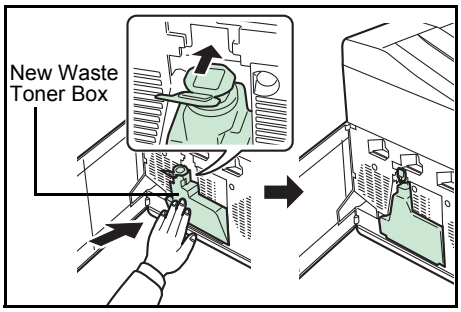
3 Close the cap to the old waste toner box after removing the box from the printer.



4 To prevent toner from spilling, put the old waste toner box in the plastic bag (contained in the toner kit) and discard it later according to the local code or regulations for waste disposal.



5 Open the cap of the new waste toner box.



6 Insert the new waste toner box as shown in the figure. When the box is set correctly, it will snap into place.

7 Make sure that the waste toner box is correctly inserted and close the left cover.

After replacing the toner containers and the waste toner box, clean the paper transfer unit. For instructions, refer to *Cleaning the Printer on page 5-8*.

Cleaning the Printer

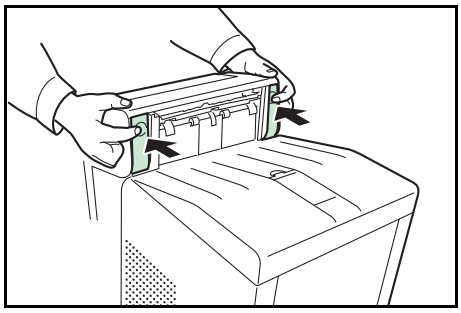
The paper transfer unit should be cleaned each time the toner container and waste toner box are replaced.

To maintain optimum print quality, it is also recommended that the inside of the printer be cleaned once a month as well as when the toner container is replaced.

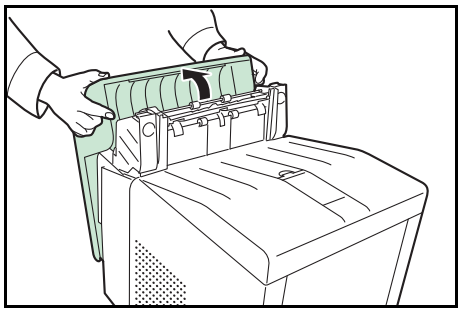
It should also be cleaned if streaking or lines appear on printed copies, or if printouts appear faint or blurred.

Cleaning the Paper Transfer Unit

Print problems such as soiling of the reverse side of printed pages may occur if the paper transfer unit becomes dirty. To clean the paper transfer unit, you must use the cleaning cloth.

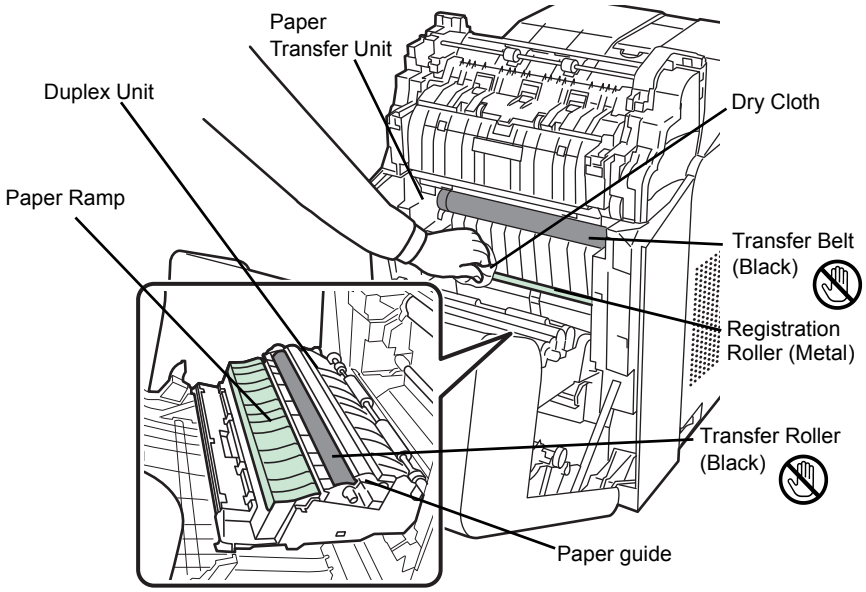


1 Press the lever to release the lock.



2 Pull out the front cover.

3 Wipe away the paper dust on the registration roller, the paper ramp and paper guide using the cleaning cloth.



Note Be careful not to touch the black transfer roller and black transfer belt during cleaning as this may adversely affect print quality.

4 Push the front cover back in completely.

Note Take care not to get your hands caught in the front cover when you close it.

6 Troubleshooting

This chapter contains explanations on the following topics:

General Guidelines 6-2
Print Quality Problems 6-3
Error Messages 6-5
Clearing Paper Jams 6-14

If a problem cannot be corrected, contact your service technician.

General Guidelines

The table below provides basic solutions for problems you may encounter with the printer. We suggest you consult this table to troubleshoot the problems before calling for service.

Symptom	Check Items	Corrective Action
Print quality is not good.	Refer to *Print Quality Problems on page 6-3*.	
Paper is jammed.	Refer to *Clearing Paper Jams on page 6-14*.	
Nothing lights on the operation panel even when power is turned on and the fan makes no noise.	Check that the power cord is properly plugged into the power outlet.	Turn off the printer's power, plug in the power cord securely, and try turning on the printer's power again.
	Check that the power switch is in the On (|) position.	Set the power switch to the On position.
The printer prints a status page, but does not print jobs from the computer.	Check the printer cable or the interface cable.	Connect both ends of the printer cable securely. Try replacing the printer cable or the interface cable.
	Check program files and application software.	Try printing another file or using another print command. If the problem occurs only with a specific file or application, check the printer driver settings for that application.
The printer is emitting steam in the area around the top tray.	Check the room temperature to see if it is low, or if damp paper was used.	Depending on the printing environment and the paper's condition, the heat generated during printing will cause the moisture in the paper to evaporate, and the steam emitted may look like smoke. This is not a problem, and you can continue printing. If the steam concerns you, raise the room temperature, or replace the paper with a newer, dryer paper.

Tips

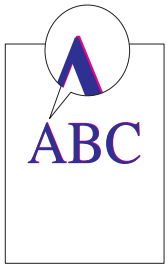
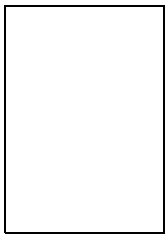
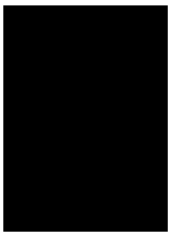
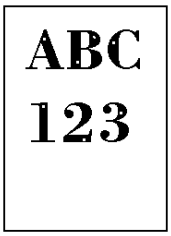
Printer problems may be solved easily by following the tips below. When you have encountered a problem that following the above guidelines will not solve, try the following:

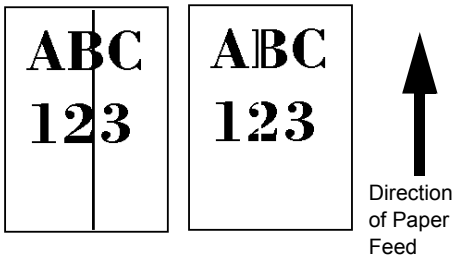
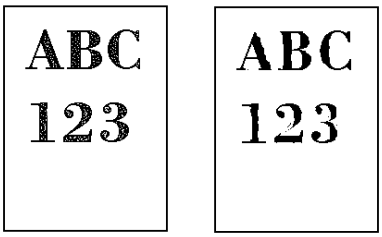
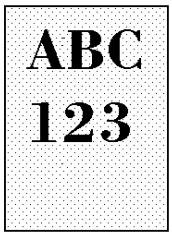
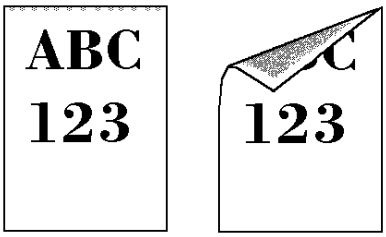
- Turn the printer power off and wait for several seconds. Then, turn on the printer.
- Reboot the computer which sends the print jobs to the printer.
- Make sure that the procedures for printing are correctly followed in the application software. Consult the documentation supplied with the application software.

Print Quality Problems

The tables and diagrams in the following sections define print quality problems and the corrective action you can conduct to solve the problems. Some solutions may require cleaning or replacing parts of the printer.

If the suggested corrective action will not solve the problem, call for service.

Printed Results	Corrective Action
Skewed-color printout 	Conduct color registration using the printer operation panel. For details, refer to *Color Regist. Normal (Color registration [Standard]) on page 4-120*.
Completely blank printout 	Check the toner containers. Open the printer top cover (top tray) and check that the toner containers are correctly installed in the printer. For more information on installing the toner containers, refer to *Toner Container Replacement on page 5-2*.
	Check that the application software is correctly operated.
Full single-color printout 	Check the main charger unit. Open the left cover and check that the main charger unit is correctly installed.
Dropouts dots 	Clean the LSU. For details, refer to *LSU (LSU cleaning mode setting) on page 4-130*.

Printed Results	Corrective Action
Black or white vertical streaks 	Refresh drum. Perform the following procedures on the operation panel and try cleaning the drum surface using the printer's built-in cleaning system. **1** In the mode selection menu, press [△] or [▽] to select `Adjust/ Maint.`. **2** Press **[OK]**. `Adjust/Maint.` menu screen appears. **3** Press [△] or [▽] to select `Service Setting`. **4** Press **[OK]**. The `Service Setting` menu screen appears. **5** Press [△] or [▽] to select `Drum`. **6** Press **[OK]**. A drum cleaning confirmation message is displayed. **7** Press `[Yes]` (**[Left Select]**). Drum cleaning begins. When drum cleaning ends, the `Service Setting` menu reappears.
	Clean the LSU. For details, refer to *LSU (LSU cleaning mode setting) on page 4-130*.
Faint or blurred printing 	Refresh drum. For details, refer to *Drum (Drum/Refresh mode setting) on page 4-130*.
	Make sure the paper type setting is correct the paper being used. For details, refer to *Paper Settings on page 4-41*.
	Conduct color calibration either by switching the printer off then on or using the printer operation panel. For details, refer to *ColorCalibration on page 4-119*.
	Try adjusting the color control settings using the printer driver.
	Check the operation panel. If the `Toner is low.(Replace when empty.)` message is displayed, install a new toner kit. To replace toner, refer to *Toner Container Replacement on page 5-2.*
Grey background 	Conduct color calibration either by switching the printer off then on or using the printer operation panel. For details, refer to *ColorCalibration on page 4-119*.
Dirt on the top edge or back of the paper 	Check the paper chute and the ramp. Pull out the paper transfer unit and check for toner on the paper ramp. Clean the paper ramp using a soft, dry, lint-free cloth. For details, refer to *Cleaning the Paper Transfer Unit on page 5-8*.

Error Messages

The following table lists errors and maintenance messages that you can be dealt with by yourself. If `Machine failure. Call service.` appears, turn off the printer, disconnect the power cord, and contact your service technician.

If `Machine failure. Call service.` or `Error occurred. Turn the main power switch off and on.` is displayed, turn off the printer then turn it back on to see if the printer has recovered. If the printer has not recovered, turn off the printer, disconnect the power cord, and contact your service representative or authorized service center.

Some errors cause the alarm to sound. To stop the alarm, press **[Cancel]**.

Message	Corrective Action

`Account error.`
`Press [OK].`
`##`
	This message is displayed when the Job Accounting function is enabled and an attempt to specify job accounting settings or to register or delete an account fails. To return the printer to the print-ready status, press **[OK]**.

`Add paper in MP tray.`	The paper has run out in the paper source displayed. Supply paper according to the paper source displayed (paper cassettes, MP tray, or optional paper feeders).This message is displayed alternately with messages indicating the printer status, such as, `Ready to print.`, `Please wait.`, and `Processing..`

`Machine failure.`
`Call service.`
`F###`
	`F###` represents a controller error (**#=**`0`, `1`, `2`, ...). Call for service. The printer does not operate when this message is displayed.

`Machine failure.`
`Call service.`
`F000`
	The printer controller and operation panel cannot exchange data. Turn the printer off and unplug it from the mains power supply. Then contact your service representative or authorized service center. See the back page of this manual for the relevant phone numbers.

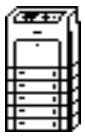
`Machine failure.`
`Call service.`
`####`
	`####` represents a mechanical error (**#=**`0`, `1`, `2`, ...). Call for service. The printer does not operate when this message is displayed. The total number of pages printed is also indicated, e.g. `0123456`.

Message	Corrective Action
Canceling...	Displayed when data is being canceled.
Cassette# not loaded.	The corresponding paper cassette is not installed. Install the cassette. The cassette number can be 1 (topmost) to 5 (bottom).
Check cassette #.	This message is displayed when a paper lift error has occurred in the paper source's cassette. Pull out the cassette for the paper source displayed (either the paper cassettes or optional paper feeders) and check if the paper is loaded correctly. The message Call service. is displayed when this error occurs repeatedly.
Check waste toner box.	This message warns following two cases. Install the new waste toner box. The waste toner box is not installed. The waste toner box is full. For details, refer to *Replacing the Toner Container on page 5-4*.
Clean the printer.	Please clean the inside of the printer. Refer to *Cleaning the Printer on page 5-8*. This message will be displayed when replacing the toner container after the message Adding toner. Please printer cleaning. is displayed. After cleaning the inside of the printer, press **[OK]** and the printer will be ready for printing.
Close front cover.	The front cover of the printer is open. Close the front cover.

Message	Corrective Action
Close left cover.	The left cover of the printer is open. Close the left cover.
Close top cover.	The top cover of the printer is open. Close the printer top cover.
Cannot remove the memory while in use.	This message is displayed when `Remove Memory` was selected while a USB memory was being used. The previous screen is displayed again 1 or 2 seconds.
Cannot duplex print on this paper.	You attempted to print with a paper size and paper type that cannot be used for duplex printing. Press **[OK]** to print onto one-side of the paper only.
Error occurred. Turn the main power switch off and on. F###	Turn the power switch off and then back on again. If this message still remains, turn the power switch off, and contact your service representative or authorized service center.
Error occurred. Turn the main power switch off and on. F000	The printer controller and operation panel cannot exchange data. Turn the printer off and unplug it from the mains power supply. Then contact your service representative or authorized service center. See the back page of this manual for the relevant phone numbers.

Message	Corrective Action
Job Accounting restriction exceeded. Press [OK].	This message is displayed when the Job Accounting function is enabled and an attempt has been made to exceed the print limit set for each account. To return the printer to the print-ready status, press **[OK]**. For more information, refer to *Job Accounting (Job Accounting settings) on page 4-108*.
Format the SSD.	The SSD installed in the printer is not formatted, and therefore cannot be read or written.
SSD error. Press [OK]. ##	A SSD error has occurred. Look at the error code given in place of ## and refer to *Storage Error Codes on page 6-13*. To ignore the SSD error, press **[OK]**.
Replace MK.	Replace Maintenance Kit which is displayed on the message display. Replacement of the maintenance kit is necessary at every 300,000 images of printing and requires professional servicing. Contact your service technician.
Job not stored. Press [OK].	Printing using the Job Box function failed because there was insufficient space available on the SSD or RAM disk, or because the RAM disk was disabled when demounting the SSD. To print an error report and return the printer to the print-ready status, press **[OK]**.
Restricted by Job Accounting. Press [OK].	This message is displayed when printing was attempted, despite the Job Account function being on with Restriction applied as the job limit for each job account. To return the printer to the print-ready status, press **[OK]**. For more information, refer to *Job Accounting (Job Accounting settings) on page 4-108*.
KPDL error. Press [OK].	Current print processing cannot continue because of occurrence of KPDL error which is categorized by ##. To print out an error report, display KPDL Error Rpt. from the menu system, and select On. Press **[OK]** to resume printing. You can abandon printing by pressing **[Cancel]**. If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time.

Message	Corrective Action
Load paper in cassette #.	The paper cassette matching the paper size and paper type of the print job is empty. Load paper into the paper cassette as displayed in place of #. Press **[OK]** to resume printing. If you want to print from a different paper source, press **[Alt.]** (**[Left Select]**) and you can change the source for paper feeding. After selecting a paper source and pressing **[MENU]**, Paper Settings appears. By pressing the △, the paper type settings menu appears. After setting the correct paper type, press **[OK]** and printing starts.
Load paper in MP tray.	There is no paper cassette installed in the printer that matches the paper size and paper type of the print job. Set paper in the MP tray. Press **[OK]** to resume printing. (Note that feeding the paper having a paper size which does not match the current paper size from the MP tray can cause paper jam.) If you want to print from a different paper source, press **[Alt.]** (**[Left Select]**) and you can change the source for paper feeding. After selecting a paper source and pressing **[MENU]**, Paper Settings appears. By pressing the △, the paper type settings menu appears. After setting the correct paper type, press **[OK]** and printing starts.
Low security	This message is displayed when Low was selected in Security Level.
Memory is full. Print job cannot be processed completely.	The total amount of data received by the printer exceeds the printer's internal memory. Try adding more memory. Press **[OK]** to resume printing. You can abandon printing by pressing **[Cancel]**. If Auto Error Clear is set to On, printing will be automatically resumed after a preset period of time.
No multi copies. Press [OK].	Multi copies cannot be printed because RAM disk is disabled or the SSD is not installed. Try adding more memory or installing SSD, and configuring the RAM disk settings.
Disconnect the power cord from the machine and connect it to the multi purpose feeder.	This message is displayed when the optional paper feeder PF-510 is not connected to a power source and COATED (coated paper) is selected as the paper type setting. Connect it to a power source via the printer.

Message	Corrective Action
Original toner installed.	Displayed when the installed toner is the original product.
 Paper jammed in ##########	A paper jam has occurred. The location of the paper jam is indicated in place of the #'s. For details, refer to *Clearing Paper Jams on page 6-14*.
Loading paper.	The selected cassette is being prepared.
Paper path error. Set cassette.	There is no paper cassette in the feeder, or the cassette is not inserted properly. After reinserting the paper cassette, you should be able to print. When two or more optional feeders are installed and the lowest one is selected, the same message will appear if any of the upper paper feeder and the printer cassette is improperly installed.
RAM disk error. Press [OK]. ##	A RAM disk error has occurred. Look at the error code given in place of ## and refer to *Storage Error Codes on page 6-13*. To ignore the RAM disk error, press **[OK]**.
Replace the toner. [C][M][Y][K] Clean the printer.	Toner has run out in the toner container(s). Replace the toner container using a new toner kit for the particular color. The printer does not operate when this message is displayed. For example, if Replace toner.[C][K] is displayed, replace the cyan and the black toner containers. For details, refer to *Toner Container Replacement on page 5-2*.

Message	Corrective Action
Toner is low. (Replace when empty.) [C][M][Y][K]	Two messages are displayed alternately. The toner in the displayed color (C: Cyan, M: Magenta, Y: Yellow or K:Black) has run low. Ensure that a new toner container is available without delay. For details, refer to *Toner Container Replacement on page 5-2*.
Top tray is full of paper. Remove the paper.	The top tray has become full (approx. 500 pages). You must remove all printed pages from the top tray. When the printer detects that the top tray is empty again, the printer will continues printing into the top tray.
Unknown toner installed.	We will not be liable for any damage caused by the use of third party supplies in this machine.
Unknown toner installed. PC [C][M][Y][K]	This message is displayed if the installed toner container's regional specification does not match the printer's. Install the specified toner container.
USB memory error. Press [OK]. ##	An error has occurred in the USB memory device. To return the printer to the print-ready status, press **[OK]**. Look at the error code given in place of ## and refer to *Storage Error Codes on page 6-13*. To ignore the USB memory error, press **[OK]**.

Message	Corrective Action
Alternative: 2 A5 Plain 3 A4 Labels 4 B4 Plain	When the cassette does not contain any paper that matches the print data (paper size and type), this message allows you to specify an alternative cassette to use instead. A paper source number is only displayed when an optional paper feeder is installed. To print from a different paper source, refer to *Paper Feed Mode (Setting the paper feed source) on page 4-54*.
Incorrect account ID. Press [OK].	This message is displayed when the Job Accounting function is enabled and no account is set for a transmitted print job or the specified account is not registered (the incorrect account is set). To return the printer to the print-ready status, press **[OK]**. For more information, refer to *Job Accounting (Job Accounting settings) on page 4-108*.
This account ID is already registered.	Displayed when an attempt is made to register an account in the Job Accounting menu by entering an account code that already exists. For more information, refer to *Job Accounting (Job Accounting settings) on page 4-108*.
Incorrect ID. Incorrect account ID.	• The ID or Password entered for the Job Accounting function is not correct. Check the ID or Password. For more information, refer to *Job Accounting (Job Accounting settings) on page 4-108*. • The user ID entered for a private job, or a stored job is not correct. Check the user ID that you specified on the printer driver. For more information, refer to *Job Box on page 4-27*.
Incorrect password.	The password does not match the password set. Enter the correct password. For more information, refer to *Job Accounting (Job Accounting settings) on page 4-108*.

Storage Error Codes

SSD Errors

Code	Meaning
03	The SSD is write protected using command operation. Remove the write protection using the command.
04	There is no available SSD space. Delete unnecessary files, etc., in order to free up space.
05	The desired file does not exist in the SSD. Stored the file in the SSD.
10	The file stored in the SSD is write protected using command operation. Remove the write protection using the command.

USB Memory Errors

Code	Meaning
01	The amount of data that can be saved at once has been exceeded. Split the large file into multiple smaller files. The USB memory is write protected. Remove the write protection. The USB memory is broken. Even if the problem is not solved, format the USB memory with the device or use the new USB memory compatible with the printer.
04	There is no available space. Delete unnecessary files, etc., in order to free up space.

RAM Disk Errors

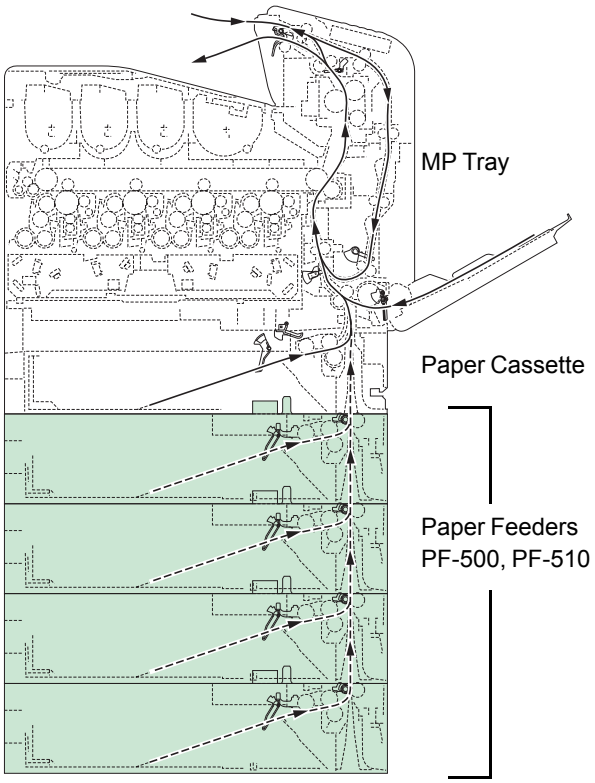
Code	Meaning
02	RAM disk mode is Off. Turn RAM disk mode On from the operation panel.
03	The RAM disk is write protected using command operation. Remove the write protection using the command.
04	No disk space. Purge unnecessary files or increase the RAM disk size.
05	The desired file does not exist in the RAM disk. Stored the file in the RAM disk.
10	The file stored in the RAM disk is write protected using command operation. Remove the write protection using the command.

Clearing Paper Jams

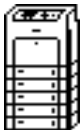
If the paper jammed in the paper transport system, or no paper sheets were fed at all, the `Paper jam` message appears and the location of the paper jam (the component where the paper jam has occurred) is also indicated. The printer automatically goes off-line when this message is displayed. Remove jammed paper. After removing jammed paper, the printer will re-start printing.

Possible Paper Jam Locations

The figure below explains the printer's paper paths including the options. The locations where paper jams might occur are also shown here, with each location explained in the table below. Paper jams can occur in more than one component on the paper paths.



Paper Jam Message	Description	Reference Page
Paper jammed in the printer. [Help]	Paper is jammed inside the printer, paper cassette or MP tray.	*page 6-15* *page 6-16* *page 6-18*

Paper Jam Message	Description	Reference Page
 Paper jammed in cassette #. [Help]	Paper is jammed at the optional paper feeder's cassette #.	*page 6-18*

General Considerations for Clearing Jams

Bear in mind the following considerations when attempting jam removal:

> **CAUTION** When pulling the paper, pull it gently so as not to tear it. Torn pieces of paper are difficult to remove and may be easily overlooked, deterring the jam recovery.

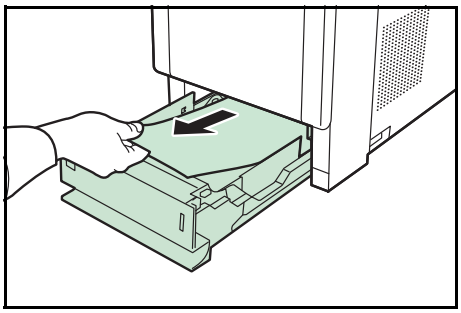
- If paper jams occur frequently, try using a different type of paper, replace the paper with paper from another ream, flip the paper stack over, or rotate the paper stack 180 degrees. The printer may have problems if paper jams recur after the paper was replaced.
- Whether or not the jammed pages are reproduced normally after printing is resumed depends on the location of the paper jam.

Paper Jam at Cassette

Paper is jammed at paper cassette.

1 First, open the printer's front cover and check for paper jams in the paper transfer unit.

For more information, refer to *Paper Jam in Printer on page 6-16*.



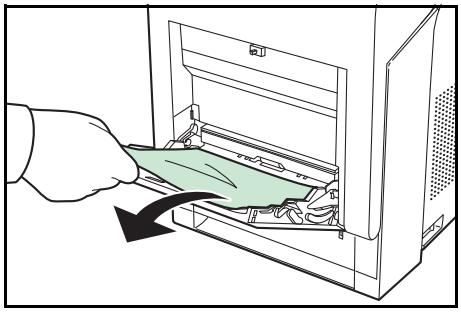
2 Pull out the paper cassette and remove the jammed paper.

Paper Jam at MP Tray

Paper is jammed at the MP tray. Remove the jammed paper using the procedure given below.

1 First, open the printer's front cover and check for paper jams in the paper transfer unit.

For more information, refer to *Paper Jam in Printer on page 6-16*.

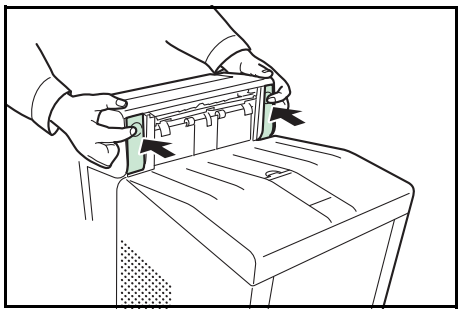


2 Remove the jammed paper.

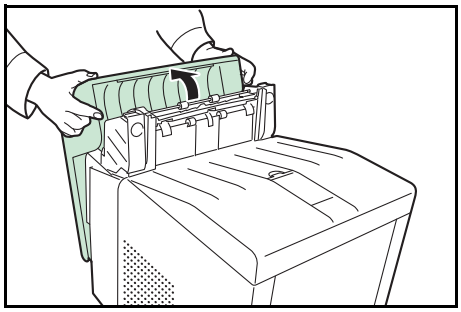
Paper Jam in Printer

Paper is jammed at the paper cassette or inside the printer. Remove the jammed paper using the procedure given below.

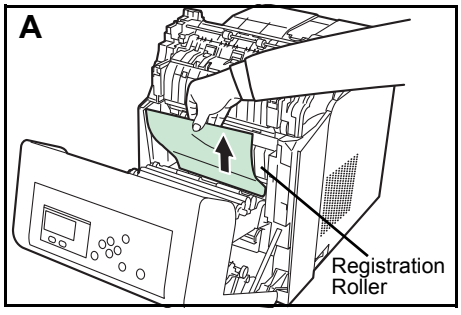
CAUTION The fuser unit inside the printer is hot. Do not touch it with your hands as it may result in burn injury. Remove jammed paper carefuly.



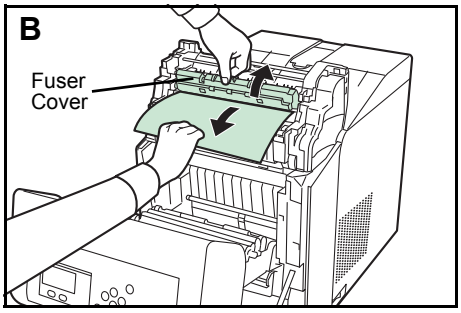
1 Press the lever to release the lock.



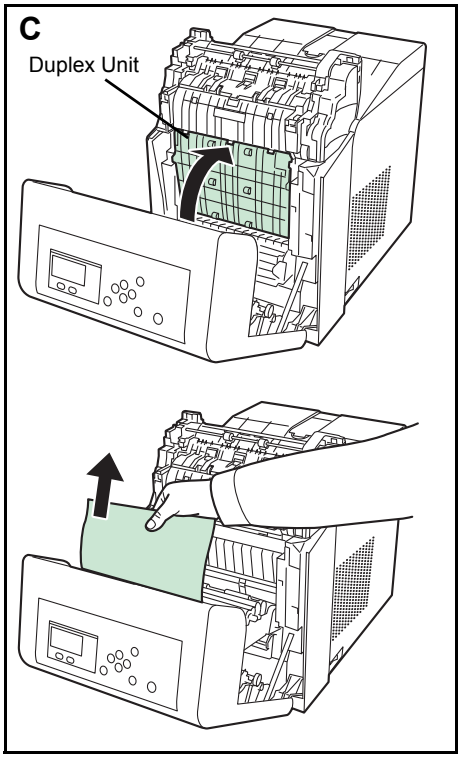
2 Pull the front cover towards you.



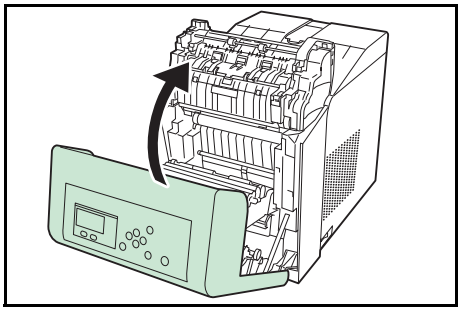
3 If the paper has jammed near the registration roller, as shown in **A**, remove the paper by pulling it up from the edge.



If the paper has jammed inside the fuser unit, as shown in **B**, open the fuser cover and remove the paper by pulling its edge.



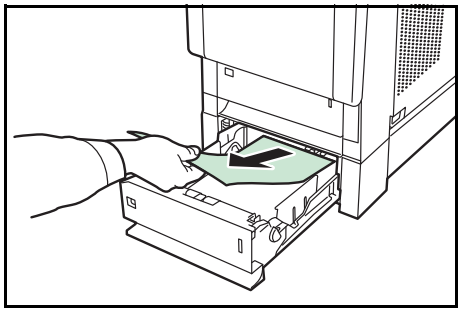
If the paper has jammed inside the duplex unit, as shown in **C**, lift the duplex unit and remove the paper by pulling it up from the edge.



4 Close the front cover.

Paper Jam at Cassette 2 (to 5)

Paper is jammed in the optional cassette. Remove the jammed paper using the procedure given below.



Pull out the optional cassette and remove the jammed paper.

Appendix

This chapter lists the provides details of the available interfaces and describes the optional hardware that can be installed on the printer and shows the printer's specifications.

Interface A-2
USB Interface A-2
Network Interface A-3
About the Options A-5
Expansion Memory Modules A-6
Expansion Memory Modules A-8
Specifications A-11

For availability of the options, consult your service technician.

Interface

This chapter explains the signals used in the printer's USB, and network interfaces. It also lists pin assignments, signal functions, timings, connector specifications, and voltage levels.

- USB Interface
- Network Interface

USB Interface

This printer supports the Hi-Speed USB. USB (Universal Serial Bus) interface specifications and interface signals are as follows.

Specifications

Basic Specification

Complies with the Universal Serial Bus Specification Revision 2.0.

Connectors

Printer: B-type receptacle (female) with upstream port

Cable: B-type plug (male)

Cable

Use a shielded cable that complies with USB 2.0 (Hi-Speed USB) and not longer than 5 meters (16 feet).

Transfer Mode

High speed (480 Mbps maximum)

Full-Speed (12 Mbps maximum)

Power Control

Self-power device

Interface Signals

USB Connector Pin Assignment

Pin	Signal	Description
1	Vbus	Power supply (+5 V)
2	D-	Data transmission
3	D+	Data transmission
4	GND	Signal ground
Shell	—	Shield

Network Interface

Features

Automatic IP Address Resolution

This feature is compatible with the DHCP/DHCPv6 protocol and allows the printer to automatically receive IP addresses from the DHCP/DHCPv6 server.

Management using Web Browsers

HTTP pages are incorporated in to the interface, so that a web browser can be used to monitor and change a range of settings. The settings can be password-protected.

Support for a Range of Protocols

The SMTP, POP3, SSL, SNMP, IPv6 and NetBIOS over TCP/IP protocols are supported for easier printer management and more robust security.

Support for IEEE 802.1X

The interface supports EAP-TLS and PEAP authentication.

Supports IPv6

Supports IPv6, which is based on IPv4 with improvements, such as increased manageable address space, additional security functions and priority based data transmission.

Supports IPSec

Supports IPSec, the security protocol that authenticates and encrypts in the network layer (IP layer).

Specifications

Connector

10 Base-T/100 Base-TX/1000 Base-T

Operating Systems

Windows XP/Vista/7/8/Server2003/Server2008/Server2012 R2,
Mac OS X 10.5 or later

Network Protocols

- IPv6: HTTP, HTTPS, LPD, FTP, IPP, RawPort, ICMPv6, LLTD, SNTP, DHCPv6, SMTP, POP3, DNS, SNMPv1/v2c/v3, IPPS, WSD
- IPv4: HTTP, HTTPS, LPD, FTP, IPP, RawPort, ICMP, DHCP, SMTP, POP3, SNTP, DNS, WINS, NetBIOS over TCP/IP, SNMPv1/v2c/v3, Bonjour, IPPS, LLTD, WSD
- Etc.: IPX/SPX, NetWare (NDS/Bindery), NetBEUI

Security Protocols

SSL/TLS (HTTPS, IPPS), SNMPv3, EAP-TLS, PEAP, AH, ESP

Operation Environment

10 to 35 °C (50 to 95 °F), 20-80 % RH (condensation-free)

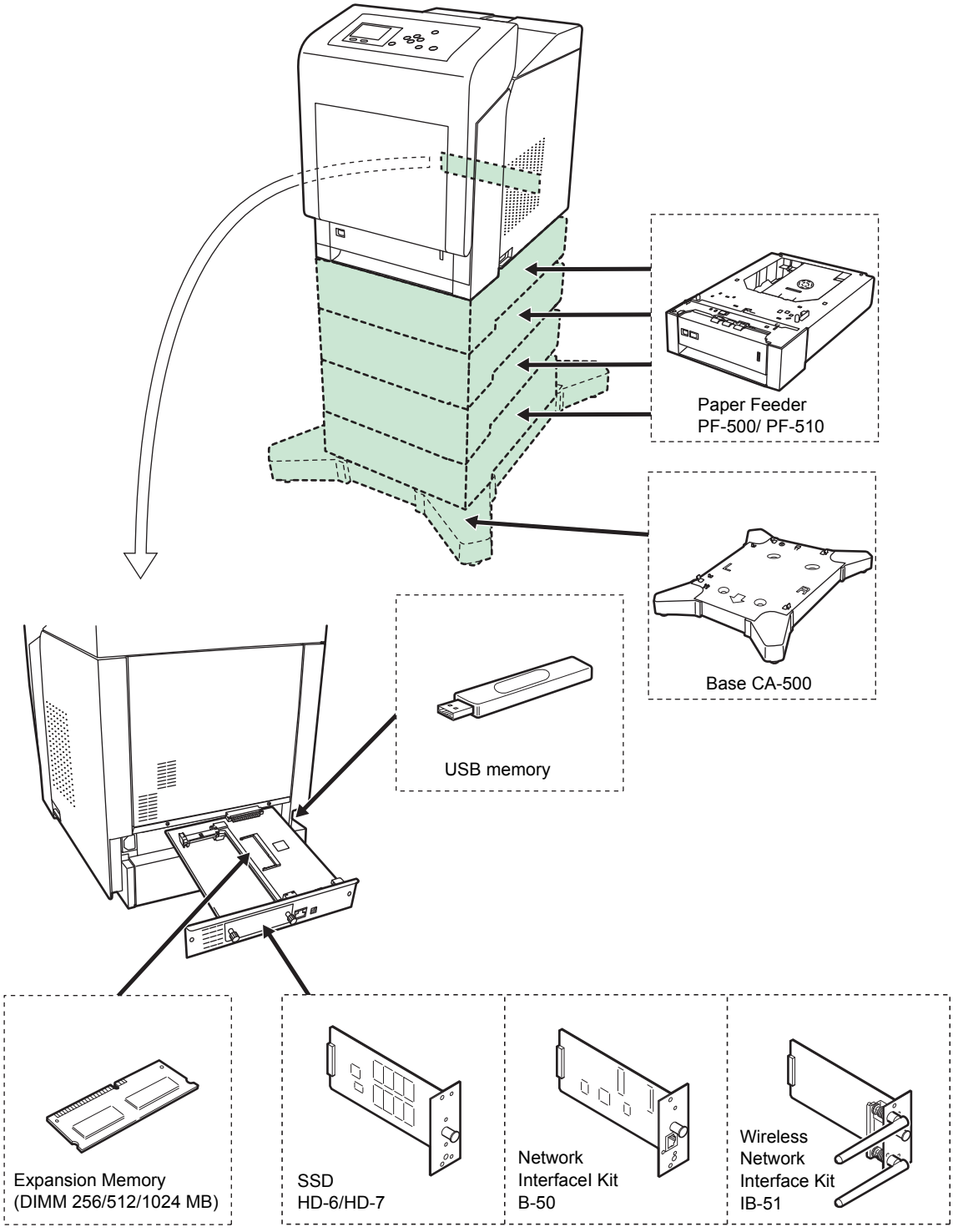
EMI Countermeasures

VCCI Class B, FCC Class B (U.S.), CE (Europe)

IMPORTANT When IPv6 functions are used, the devices used on the network (routers, PCs, etc) must support IPv6.

About the Options

This printer has the following options available to satisfy your printing requirements. For instructions on installing individual options, refer to the documentation included with the option. Some options are explained in the following sections.



Expansion Memory Modules

The printer's main controller board has a memory slot into which you can plug in optional memory modules (dual in line memory modules). You can increase the printer's memory up to 1280 MB by plugging in the optional memory modules.

Note A 512 MB memory module is already installed at the factory. To expand memory up to 1536 MB, install 1024 MB memory module.

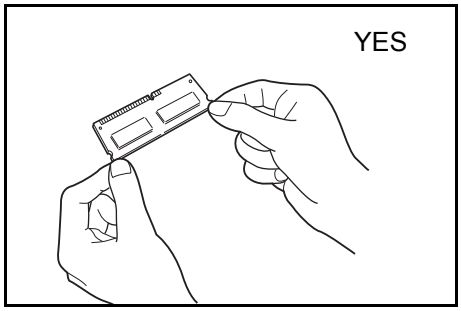
Expansion Memory Modules

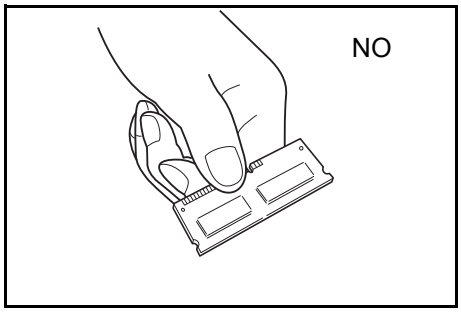
You can select additional memory modules from 256, 512 or 1024 MB. The maximum memory size is 1536 MB.

Precautions for Handling the Printer's Main Controller Board and Memory Modules

To protect electronic parts, discharge static electricity from your body by touching a water pipe (faucet) or other large metal object before handling the memory modules. Or, wear an antistatic wrist strap, if possible, when you install the memory modules.

Always hold the main controller board or a memory module by its edges as shown below to avoid damaging electronic parts.

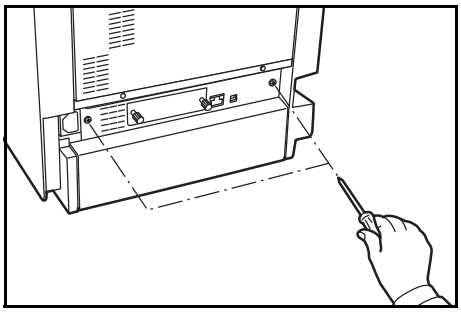




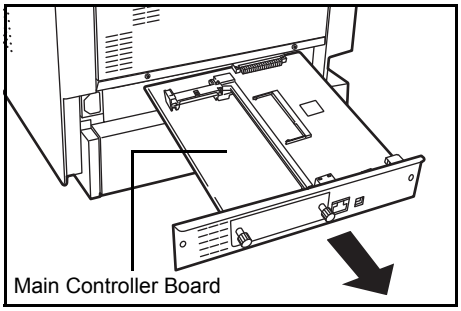
Installing the Memory Modules

IMPORTANT Remove any USB memory that is attached to the printer's USB memory slot.

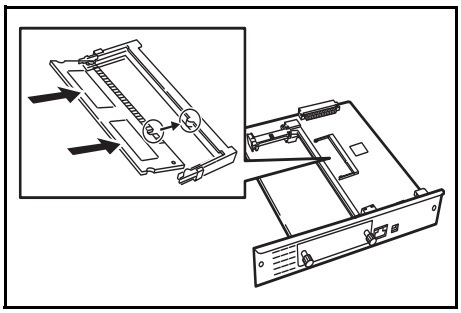
1 Power off the printer and unplug the printer power cord.



2 Unscrew two screws at the back of the main controller board.

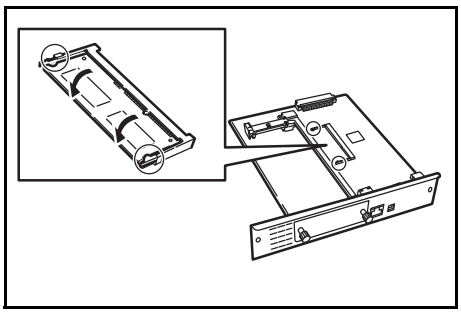


3 Pull out the main controller board gently.



4 Remove the memory module from its package. Aligning the cutouts of the memory module with the matching keys of the socket, carefully plug the memory module into the memory socket until it clicks in place.

> **CAUTION** Do not plug the memory module backwards.



5 Push down the memory module to secure.

6 After you finish installing the memory modules, reinstall the main controller board and fasten it with screws.

Removing a Memory Module

To remove a memory module, remove the main controller board, then carefully push out the two socket clamps. Ease the memory module out of the socket to remove.

Checking Expansion Memory

After installing expansion memory, use the following method to check that it is correctly installed.

1 In the Report Print menu, press △ or ▽ to select `Status Page`.

2 Press **[OK]**. A confirmation message is displayed.

3 Press `[Yes]` (**[Left Select]**). `Accepted.` appears and the printer prints the status page.

Check the amount of memory with the printed status page. If the memory addition has been done correctly, the total amount of memory will have increased. (The amount of memory when shipped from the factory is 512 MB.)

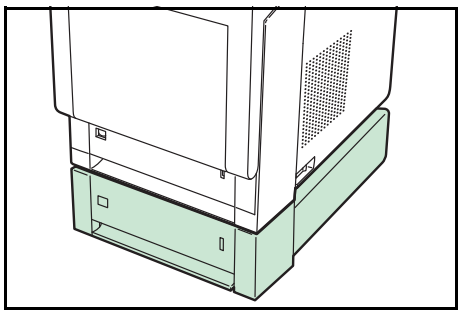
```
Print.
Are you sure?
→Status Page

[  Yes   ] [   No    ]
```

PF-500, PF-510 Paper Feeder

The optional paper feeder PF-500 (for plain paper) and PF-510 (for multiuse media) will each hold approximately 500 sheets of paper. Up to 4 optional feeders can be added to the bottom of the printer, allowing continuous feeding of up to 2,500 sheets of paper when combined with the printer's own cassette.

IMPORTANT When you use the paper feeder, place the papers and envelopes print-side up.

The papers that can be used in the cassettes supplied with the paper feeders are as follows:



PF-500 :

Paper size : Envelope Monarch, Envelope #10, Envelope DL, Envelope C5, Executive, Letter, Legal , A4, B5, A5, Envelope #9, Envelope #6, ISO B5, Custom (92 x 165 mm to 216 x 356 mm), Oufuku Hagaki, Oficio II, 216 × 340 mm, 16K, Statement, Folio, Youkei 2 and Youkei 4

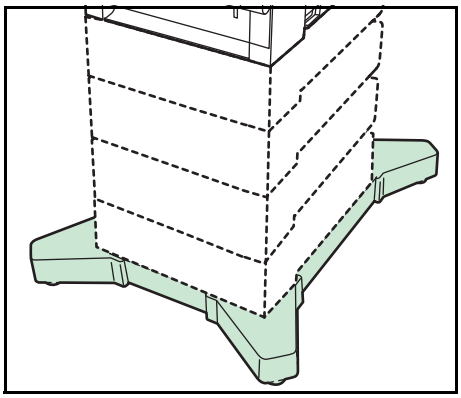
Paper type : Plain, Preprinted, Bond, Recycled, Rough, Letterhead, Color, Prepunched, High Quality, CUSTOM 1 (to 8)

PF-510 :

Paper size : Envelope Monarch, Envelope #10, Envelope DL, Envelope C5, Executive, Letter, Legal , A4, B5, A5, Envelope #9, Envelope #6, ISO B5, Custom (92 x 165 mm to 216 x 356 mm), Oufuku Hagaki, Oficio II, 216 × 340 mm, 16K, Statement, Folio, Youkei 2 and Youkei 4

Paper type : Plain, Preprinted, Labels, Bond, Recycled, Rough, Letterhead, Color, Prepunched, Cardstock, Envelope, Coated, Thick, High quality, CUSTOM 1 (to 8)

IMPORTANT Please make sure that the machine is stable, by placing the paper feeders on a sturdy desk or base.



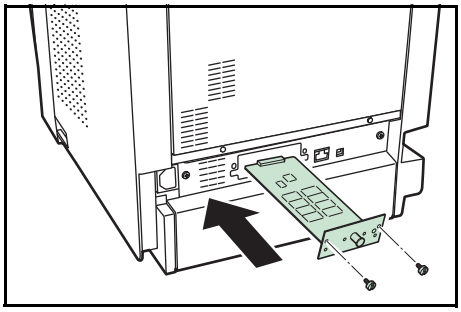
Base (CA-500)

If you are attaching paper feeder PF-500 or PF-510 to the printer and installing it on the floor, you can use a base to maintain the machine's stability.

For detailed information on installing the base, refer to the manual supplied with the base.

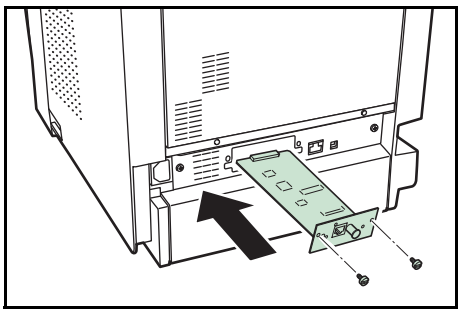
IMPORTANT Be careful to not trip on the feet of the base.

SSD (HD-6/HD-7)



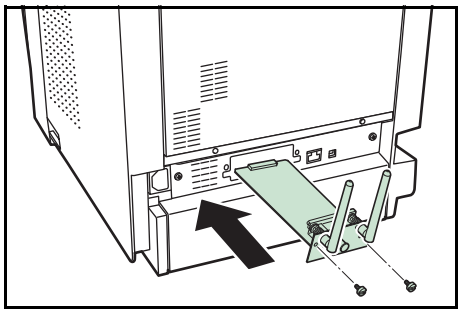
Insert the SSD into the option interface slot. If a SSD is installed in the printer, received data can be rasterized and stored on this SSD. This enables high-speed printing of multiple copies using an electric sort function. Also, you can use the Job Box functions. For details, refer to *Job Box on page 4-27*.

Network Interface Kit (IB-50)



The network interface kit is a high-speed interface for communications speeds of 1 gigabit per second. In addition to the TCP/IP and NetBEUI supported by the machine's standard network interface, it also supports IPX/SPX and Apple Talk, so network printing becomes possible in various environments, including Windows, Macintosh, UNIX and Netware. For details, refer to *IB-50 User's Manual*.

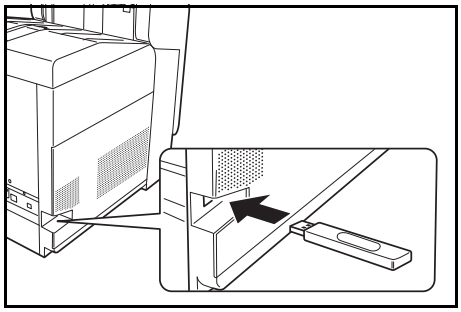
Wireless Network Interface Kit (IB-51)



This is a wireless network interface kit which supports the wireless network specifications IEEE802.11n (Max 300 Mbps) and 11 g/b.

With the utilities supplied, settings are possible for a variety of OS and network protocols. For details, refer to *IB-51 User's Manual*.

USB Memory



USB memory is a type of simple, highly portable flash memory that plugs into the USB memory slot. Files stored in USB memory can be printed by plugging the USB memory into the printer and then specifying the desired file names from the operation panel.

The operation panel displays the names of PDF, TIFF, JPEG and XPS files.

Up to 100 files can be printed from USB memory. Files with names consisting of up to 99 single-byte alphanumeric characters can be printed. However, because the message display will only show 12 characters, files with 13 or more characters cannot be identified on the message display.

Any double-byte characters included in a file name appear as corrupted text in the message list. Also, when the file is printed an error message appears and printing fails.

For information on printing PDF files stored in USB memory, refer to *USB Memory (USB memory selection) on page 4-20*.

For information on supported USB memory devices, contact your service technician.

Specifications

Note Specifications are subject to change without notice.

Item		Description
Printing Method		Electrophotographic four color (CMYK) printing using tandem (4) drum system
Printing Speeds		A4: 35 ppm A5/B5/A6: 37 ppm Letter: 37 ppm Legal: 30 ppm
Duplex Printing Speed		A4,B5,A5,Letter: 35 ppm Legal: 30 ppm
Resolution		600 dpi
First Print Out Time		B/W: 8 seconds or less / Color: 9 seconds or less (Sleep: Approx. 45 seconds)
Warm-up Time (23°C, 60%RH)	Power On	45 seconds
	Sleep (within 3 hours)	38 seconds
Memory	Standard	512 MB
	Maximum	1536 MB
Operating Systems		Microsoft Windows XP/Vista/7/8, Windows Server 2003/2008/2012 R2 Apple Macintosh OS X 10.5 or later
Interface	USB	USB Interface: 1 USB Memory Slot: 1
	Network	Network Interface: 1 (10 BASE-T/100 BASE-TX/1000BASE-T)
	Option	eKUIO slot: 1 (SSD (HD-6/HD-7), Network Interface Kit (IB-50), Wireless Network Interface Kit (IB-51))
Monthly Duty	Average	5,000 pages
	Maximum	150,000 pages
Paper Sizes	Cassette	Envelope C5, Executive, Letter, Legal , A4, B5, A5, A6, ISO B5, Custom, Oficio II, 216 × 340 mm, 16K, Statement, Folio
	Cassette (Optional Paper Feeder PF-500/ PF-510)	Envelope Monarch, Envelope #10, Envelope DL, Envelope C5, Executive, Letter, Legal , A4, B5, A5, Envelope #9, Envelope #6, ISO B5, Custom, Oufuku Hagaki, Oficio II, 216 × 340 mm, 16K, Statement, Folio, Youkei 2, Youkei 4
	MP Tray	Envelope Monarch, Envelope #10, Envelope DL, Envelope C5, Executive, Letter, Legal, A4, B5, A5, A6, B6, Envelope #9, Envelope #6, ISO B5, Custom, Hagaki, Oufuku Hagaki, Oficio II, 216 × 340 mm, 16K, Statement, Folio, Youkei 2, Youkei 4

Item		Description
Paper Types†	Cassette (Optional Paper Feeder PF-500)	Plain, Preprinted, Bond, Recycled, Rough, Letterhead, Color, Prepunched, High quality, and CUSTOM 1 (to 8)
	Cassette (Optional Paper Feeder PF-510)	Plain, Preprinted, Labels, Bond, Recycled, Rough, Letterhead, Color, Prepunched, Envelope, Cardstock, Coated, Thick, High quality, and CUSTOM 1 (to 8)
	MP Tray	Plain, Transparency, Preprinted, Labels, Bond, Recycled, Vellum, Rough, Letterhead, Color, Prepunched, Envelope, Cardstock, Coated, Thick, High quality, and CUSTOM 1 (to 8)
Paper Feed Source Capacity	Cassette	500 sheets (80 g/m^2)
	MP Tray	150 sheets (80 g/m^2)
Margin		4 mm (left, right, top and bottom)
Output Tray Capacity	Top Tray	500 sheets (80 g/m^2)
Operation Environment	Temperature	10 to 32.5 °C (50 to 90.5 °F)
	Relative Humidity	15 to 80 %
	Altitude	2,000 m (6562 feet) maximum
	Illumination	1,500 lux maximum
Power Source		120 V, 60 Hz, max. 9.7 A (U.S.A./Canada) 220-240 V, 50 Hz/60 Hz, max. 5.9 A (European countries) Max. allowable voltage fluctuation: ±10 % Max. allowable frequency fluctuation: ±2 %
Power Consumption	Maximum	1,157 W or less (U.S.A./canada) 1,299 W or less (European countries)
	During Printing	616 W (U.S.A./canada) 622 W (European countries)
	During Standby	80 W (U.S.A./canada) 86 W (European countries)
	During Sleep Mode	5 W (U.S.A./Canada) 4 W (European countries)
	Power Off	0 W
Operating Noise††	During Printing	LpA = 55 dB (A)
	During Standby	LpA = 36 dB (A)
	During Sleep Mode	immeasurably low
Dimensions (W × D × H)		345 × 518 × 512 mm 13-5/8 × 18-1/2 × 20-3/16"
Weight		Approx. 35 kg (77 lbs)

†. When using `CUSTOM 1` (to `8`), use the MP tray for paper sizes smaller than 105 × 148 mm (4-1/8 × 5-13/16 inches). The MP tray can be used with paper sizes over 70 × 138 mm (2-3/4 × 5-7/16 inches).

††. Sound pressure level at bystander position [front] in accordance with EN ISO 7779.

Glossary

Additional memory

An additional memory (optional) is used for increasing the memory capacity of this machine. For DIMM that can be used in this machine, contact your service technician.

AppleTalk

AppleTalk offers file sharing and printer sharing and it also enables you to utilize application software that is on another computer on the same AppleTalk network.

Default Gateway

This indicates the device, such as a computer or router, that serves as the entrance/exit (gateway) for accessing computers outside of the network that you are on. When no specific gateway is designated for a destination IP address, data is sent to the host that is designated as the Default Gateway.

Custom Box

The Custom Box function stores print data for each individual user on the printer and allows the user to print single or multiple copies of the stored data later using the printer's operation panel.

DHCP (Dynamic Host Configuration Protocol)

This is a protocol that automatically resolves the IP address, Subnet Mask and Gateway address on a TCP/IP network. Use of DHCP minimizes the load of network administration, especially on network environments with a large number of client computers where it is not specifically necessary to assign a separate IP address to each client, including printers.

dpi (dots per inch)

This indicates the number of dots printed per inch (25.4 mm) as a unit for expressing resolution.

EcoPrint

This is a printing mode that reduces toner consumption. Pages printed in the EcoPrint mode are lighter than pages printed in the normal mode.

Emulation

This refers to emulation of other manufacturers' printers. The printer emulates operation of the following printers: PCL6 and KPDL.

Form Feed Timeout

While data is being sent to a printer, some pauses may occur. At this time, the printer waits for the next data without making a page break. Form feed timeout is a function to wait only a preset amount of time before it executes an automatic page break. After the waiting period begins, once the designated amount of time is exceeded, the printer will automatically

process the currently received data and print it out. If the machine has received no print data for the last page, the printer ends processing of that job without outputting paper.

IP Address (Internet Protocol Address)

The Internet Protocol address is a unique number that represents a specific computer in a network. The format of an IP Address is four numbers separated by dots, e.g. 192.168.110.171. Each number should be a decimal between 0 and 255.

Job Box

The Job Box function stores print data on the printer and allows users to print single or multiple copies of the stored data later using the printer's operation panel.

KPDL

KPDL is Kyocera’s implementation of the PostScript page description language Level3.

MP Tray

This tray is used instead of the cassette when printing on envelopes, postcards, transparency sheets, and labels.

NetBEUI (NetBIOS Extended User Interface)

An enhanced version of the NetBIOS protocol, it enables the utilization of more advanced functions on small-scale networks than do other protocols such as TCP/IP, etc.

Outline font

With outline fonts, character outlines are represented with numerical expressions and fonts can be enlarged or reduced in different ways by changing the numeric values of those expressions. Printing remains clear even if you enlarge fonts, since the characters are defined with outlines represented with numerical expressions. You can specify the font size in steps of 0.25 points up to 999.75 points.

PostScript

This is a page description language developed by Adobe Systems, Inc. It enables flexible font functions and highly-functional graphics, allowing higher quality printing.

PPM (Prints Per Minute)

This indicates the number of printouts made in one minute.

Printer driver

The printer driver makes it possible for you to print data created using application software. The printer driver for the printer is contained on the DVD-ROM supplied with the printer. Install the printer driver on the computer connected to the printer.

Sleep mode

This mode is provided to save power. It is activated when the machine is not used for a preset period of time. In this mode, power is reduced to the minimum. The default setting can be changed.

Status page

This lists machine conditions, such as the machine's memory, the total number of prints and paper source settings. You can print the status page from the operation panel.

Subnet Mask

This is a 32-bit numerical value that defines which bits of the IP address specify the network address and which specify the host address.

TCP/IP (Transmission Control Protocol/Internet Protocol)

TCP/IP is a suite of protocols designed to define the way computers and other devices communicate with each other over a network.

USB (Universal Serial Bus) 2.0

A USB interface standard for Hi-Speed USB 2.0. The maximum transfer rate is 480 Mbps. This machine is equipped with USB 2.0 for high-speed data transfer.

Index

A

Administrator 4-116
Appendix A-1
Auto Cassette Change 4-54
Auto-IP 4-66

B

Bonjour 4-68
Buzzer 4-82

C

Canceling a Printing Job 4-6
Cassette (1 to 5) Settings
  Paper Size 4-43
  Paper Type 4-47
  Paper Weight 4-48
Cautionary Labels xiii
Cleaning 5-8
  Paper Transfer Unit 5-8
Color Mode 4-59
Colored Paper 3-11
Counter 4-39
Custom Paper Size 4-44
  Duplex Printing 4-51
  Paper Size 4-46
  Paper Weight 4-50

D

Date Setting 4-79
Display Bright 4-87
Duplex Printing 4-56
  Binding Modes 4-56
  Permitted with custom paper 4-51

E

Embedded Web Server RX 2-4
Emulation
  Error Report 4-58
  Status Page 4-18
Energy 4-93
Enhanced WSD 4-99
EnhancedWSD(SSL) 4-100
Error Detection
  Duplex printing error 4-88
  MP tray is empty 4-89
  Paper mismatch 4-89
Error Handling 4-88
Error Messages 6-5
  RAM disk 6-13
  SSD 6-13
  USB Memory 6-13

G

Ground xix

I

Indicator
  Attention 1-4, 4-5
  Data 1-4, 4-5
  Ready 1-4, 4-5
Installation Precautions xviii
Installing the Printer Driver 2-13
  Macintosh 2-17
  Windows 2-13
Interface 4-18, 4-65, 4-104, A-11

J

Job Account setting 4-107
Job Box 4-27
  Settings 4-37
Job Name 4-63
Job Retention
  Function 4-27
  Private Print 4-34
  Proof-and-Hold 4-31
  Quick Copy 4-28

K

Key
  Arrow Keys 1-4, 4-6
  [Back] Key 1-4, 4-7
  [Cancel] Key 1-4, 4-6
  [Left Select] Key 1-4, 4-7
  [MENU] Key 1-4, 4-6
  [OK] Key 1-4, 4-7
  [Right Select] Key 1-4, 4-7

L

Labels 3-9
  Structure and Characteristic 3-9
LAN Interface 4-104
Language 4-78
Left Cover 1-2
Low Power Mode 2-26
Low Power Timer 4-91

M

Machine Parts 1-1
Maintenance 4-119, 5-1
  Color registration 4-120, 4-123
  ColorCalibration 4-119
  Restart 4-127
Memory
  Checking Expansion Memory A-8

Expansion Memory A-6
Installation A-7
Remove A-7
Status Page 4-18
Message Display 1-4, 4-3
Language 4-78
Status Information 4-4
Mode Selection Menu 4-14
MP (Multi-Purpose) Tray 1-2
Loading Paper 3-16
Media Type 4-42
Paper Jam 6-15
Paper Selection 4-53
Paper Size 4-41

N

Network Settings 2-2, 4-64
FTP (Server) 4-71
HTTP 4-71
LPD 4-71
NetBEUI 4-71
POP3 (E-mail RX) 4-71
RAW Port 4-71
SMTP (E-mail TX) 4-71
SNMP 4-71
SNMPv3 4-71

O

Operation Panel 1-2, 1-4
Optional Network Settings 4-73
AppleTalk 4-75
Communication 4-77
IPSec 4-76
LAN Interface 4-76
MAC address filtering 4-76
Netware 4-75
Restart Network 4-77
TCP/IP 4-74
TCP/IP(IPv6) 4-74

P

Page Setting 4-60
Paper
Characteristic 3-5
Coated Paper 3-11, 3-12
Colored Paper 3-11
Envelopes 3-10, 3-12
General Guidelines 3-2
Guideline 3-4
Labels 3-9, 3-12
Loading Paper 3-14
Loading Paper into the Cassette 3-14
Loading Paper into the MP Tray 3-16
Media Type 4-42, 4-47, 4-48
Minimum and Maximum Paper Sizes 3-3
Other Paper Properties 3-6
Paper Availability 3-2
Paper Sizes 3-4, 4-41, 4-43, 4-44
Paper Thickness 4-49, 4-50
Postcards 3-10
Preprinted Paper 3-11
Recycled Paper 3-11
Resets Customized settings 4-52
Special Paper 3-7
Thick Paper 3-11, 3-12
Transparency 3-8
Paper Cassette 1-2
Loading Paper 3-14
Paper Jam 6-15
Paper Selection 4-53
Paper Size 4-43
Paper Type 4-47
Paper Feed Mode 4-54
Paper Feeder A-8
Loading Paper 3-14
Paper Feed source 4-53
Paper Jam 6-18
Paper Size 4-43
Paper Type 4-47
Paper Jams 6-14
Cassette 6-15
Locations 6-14
Message 6-14
MP Tray 6-15
Optional Cassette 6-18
Printer 6-16
Paper Size Dial 4-44
Paper Stopper 3-18
Paper Transfer Unit 1-3
Cleaning 5-8
Paper Jam 6-16
Postcards 3-10
Power Cord Connector 1-3
Power Supply xix
Power Switch 1-2
Preprinted Paper 3-11
Print
Copies 4-61
Counter 4-39
From Application Software 2-20
Orientation 4-61
Print Quality 4-59
Problems 6-3
Printer Driver
Macintosh 2-17
Windows 2-13
Printing Operation 2-1

R

RAM Disk 4-85
Rear Cover 1-3
Recycled paper 3-7, 3-11
Restart Printer 4-127

S

Safety Information xii
Cautionary Labels xiii
Installation Precautions xviii
Power Supply xix
Precautions for Use xx
Security 4-98

I/F Block 4-104
Network 4-98
Sleep 2-26
Energy Saver Mode 2-27, 4-93
Quick Recovery Mode 2-26, 4-93
Sleep Level 4-92
Specifications A-11
SSD
Format 4-87
Status Menu
Job Status 4-8
Status Page 4-17
Contents 4-17

T

Thick Paper 3-11
TIFF/JPEG Size 4-63
Timer Setting 4-90
Toner Container 1-2
Toner Container Replacement 5-2
Frequency 5-2
Toner Kits 5-3
TonerAlert Level 4-96
Top Cover 1-2
Transparency 3-8
Troubleshooting 6-1

U

USB Interface 1-3
USB Memory A-10
Print 4-20
Remove 4-22
Slot 1-3

W

Waste Toner Box 1-2
Replacing 5-6
Wide A4 4-62
WSD-PRINT 4-99

X

XPS Fit to Page 4-62

We recommend the use of our own brand supplies.
We will not be liable for any damage caused by the use of third party supplies in this machine.

TA Triumph-Adler GmbH
Betriebsstätte Norderstedt
Ohechaussee 235
22848 Norderstedt
Germany

First edition 2013.12
2PRGEEN000